

STIC Search Report Biotech-Chem Library

STIC Database Tracking Number: 156889

TO: Phuong N Huynh Location: 3d75 / 3c70 Tuesday, June 21, 2005

Art Unit: 1644

Phone: 571-272-0846

Serial Number: 09 / 202464

From: Jan Delaval

Location: Biotech-Chem Library

Remsen 1a51

Phone: 571-272-2504

jan.delaval@uspto.gov

Search Notes



Delaval, Jan

From:

Sent:

Huynh, Phuong N. Thursday, June 16, 2005 12:36 PM

To: Subject:

Delaval, Jan RE: 09/202,464

Jan,

Please search peptide of SEQ ID NO: 4, 6-10, 12-14, 16-18, 21-27, 29, and 32-36 (close) against interference databases.

Thanks,

Neon Art Unit 1644 Office REM 3D75 Mail REM 3D70 Tel (571) 272-0846

Scientific and Technical Information Center

SEARCH REQUEST FORM

		r	ivaminer# :	Date:
Kequester's Full Name: _	Phone Number	2-	Serial Number	r:
Location (Bldg/Room#)	(Mailbox #); Re:	- sults Format Prefer	red (circle): PAPER DISK
*******	*****	*****	*********	*******
To ensure an efficient and qual	ity search, please attac	th a copy of the cover	sheet, claims, and abst	ract or fill out the following:
Title of Invention:				
Inventors (please provide fu				
Earliest Priority Date:				
elected species or structures, key Define any terms that may have	words, synonyms, acro a special meaning. Gi	nyms, and registry nu ve examples or releval	mbers, and combine will at citations, authors, etc.	
For Sequence Searches Only appropriate serial number.	Please include all pert	inent information (pa	rent, child, divisional, or	issued patent numbers) along with the
	•	•		
•				
**********	*******	******	******	******
STAFF USE ONLY	Тур	e of Search	Vendors a	nd cost where applicable
Searcher:		NA Sequence (#)	S	TNDialog
Searcher Phone #:	2504	AA Sequence (#)	250	uestel/Orbit Lexis/Nexis
Searcher Location:		Structure (#)	w	/estlaw WWW/internet
Date Searcher Picked Up:	120/05	Bibliographic	. /	use sequence systems
Date Completed: (e \		Litigation	Commerce	nce SPDI Encode/Trans
	^			Other (specify)
Searcher Prep & Review Time:	<u> </u>	Fulltext		
Online Time:	+25	Other		

us-09-202-464-10.rapb

Н

Page

```
June 20, 2005, 14:14:01; Search time 53.45 Seconds (without alignments)
143.678 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (gn2_6)ptodata/2/pubpaa/USO7 PUBCOMB.pep: *
(cgn2_6)ptodata/2/pubpaa/USO7 PUBCOMB.pep: *
(cgn2_6)ptodata/2/pubpaa/USO6 PUBCOMB.pep: *
(cgn2_6)ptodata/2/pubpaa/USO6 PUBCOMB.pep: *
(cgn2_6)ptodata/2/pubpaa/USO6 PUBCOMB.pep: *
(cgn2_6)ptodata/2/pubpaa/USO8 PUBCOMB.pep: *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /cgn2_6/ptcodata/2/pubpaa/US11 NEW PUB.pep:*
/cgn2_6/ptcodata/2/pubpaa/US60_NEW_PUB.pep:*
/cgn2_6/ptcodata/2/pubpaa/US60_PUBCOMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               332641
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1714042 segs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Published_Applications_AA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                         OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       102
1 IFSKNLNIKLNMPLYIAGNK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-202-464-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Database :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Seguence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Searched:
                                                                                                                                                                                                                                                              Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	[]	p]	p]	[d	DJ	Appl	ga	a	200	ga	l a
											Ap
æ	11,	29	30	28,	31,	42,	714	714	714	150	244,
Description	Sequence	Sequence	Sequence	Sequence	Sequence 244, App						
ΩΙ	US-10-354-240-11	US-10-354-240-29	US-10-354-240-30	US-10-354-240-28	US-10-354-240-31	US-10-402-954-42	US-09-809-391-714	US-09-882-171-714	US-10-164-861-714	US-10-777-893-150	US-09-071-838-244
DB	14		14	14	14	14	10	10	15	17	О
Length	20	15	15	15	15	19	13	13	13	11	18
% Query e Match Length DB	100.0	58.8	57.8	38.2	37.3	36.3	34.3	34.3	34.3	30.4	30.4
Score	102	9	29	39	38	37	35	35	35	31	31
Result No.	п	7	Ю	4	w	9	7	89	σ	10	11

1 IFSKNLNIKLNMPLYIAGNK 20

a

Sequence 244, App Sequence 116, App Sequence 525, App Sequence 125, App Sequence 113, App Sequence 44, Appl	122, 123, 12, 13, 14, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15	Sequence 195 Sequence 12, Sequence 101 Sequence 456 Sequence 21, Sequence 21,	72, A 1, A 72, 72, 335, 367,	Sequence 660, App Sequence 10, Appl Sequence 10, Appl Sequence 10, Appl Sequence 67, Appl Sequence 67, Appl Sequence 67, Appl
	9 US-09-741-106-12 14 US-10-405-339-2 17 US-10-918-366-1 15 US-10-406-618-3 9 US-09-767-460-65 17 US-10-777-829-6	14 US-10-185-050 4 9 US-09-927-180- 5 15 US-10-394-980 6 15 US-10-436-715 8 14 US-10-181-654 8 14 US-10-181-654	US-09-813-333- 0 US-09-362-179 3 US-10-044-703 5 US-10-239-103 US-09-834-765- US-09-834-765- US-09-834-765-	10 16 US-10-416-249-660 14 14 US-10-164-030-10 14 15 US-10-460-125-10 14 16 US-10-639-067-191 17 14 US-10-059-261-175 17 14 US-10-059-261-175 17 14 US-10-059-261-175
# # # # # # # # # # # # # # # # # # #	. M M M M M N N	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 8 8 8 8 6 8 8 6 8 8 8 8 8 8 8 8 8 8 8	38 28 27.5 39 28 27.5 41 28 27.5 42 28 27.5 43 28 27.5 44 28 27.5 45 28 27.5 45 28 27.5

ALIGNMENTS

RESULT 1

```
APPLICANT: Sone, Toshio

APPLICANT: Sone, Akinori

APPLICANT: Sone, Akinori

APPLICANT: Nama, Akinori

APPLICANT: Wama, Akinori

APPLICANT: Iwama, Akiko

APPLICANT: Wama, Akiko

APPLICANT: Wama, Akiko

APPLICANT: Wama, Akiko

CHENENT: Kino, Kohsuke

FILE REFERENCE: SPO-103D1

CURRENT PRILING DATE: 203-01-29

PRIOR APPLICATION NUMBER: US/10/354,240

PRIOR APPLICATION NUMBER: PCT/3P97/00740

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR PLING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 11

SEQ ID NO 11

LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 102; DB 14;
100.0%; Pred. No. 5.7e-10;
tive 0; Mismatches 0;
Sequence 11, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 IFSKNLNIKLNMPLYIAGNK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 100.
Matches 20; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-354-240-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
```

```
US-10-354-240-28

US-10-354-240-28

US-10-354-240-28

Sequence 28, Application US/10354240

Publication No. US20030185847A1

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Kime, Akinori

APPLICANT: Kime, Akinori

APPLICANT: Kime, Kohsuke

ITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

ITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

ITLE OF INVENTION NUMBER: US/10/354,240

CURRENT FILING DATE: 12997-03-10

PRIOR APPLICATION NUMBER: DCT/JP97/00740

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR FILING DATE: 1999-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE PATENTING NOS: 174

SEQ ID NO 28

LENGTH: 15

LENGTH: 15

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 31, Application US/10354240

| Sequence 31, Application US/10354240 |
| Sequence 31, Application Wo. US20030185847A1 |
| GENERAL INFORMATION: |
| APPLICANT: Sone, Toshio |
| APPLICANT: Iwama, Akiko |
| APPLICANT: Kumo, Kohauke |
| TITLE OP INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea;
| TITLE OP INVENTION NUMBER: US/10/354,240 |
| FILE REFERENCE: SPO-103D1 |
| CURRENT FILING DATE: 1997-03-10 |
| PRIOR APPLICATION NUMBER: PCT/JP97/00740 |
| PRIOR APPLICATION NUMBER: US 09/142,524 |
| PRIOR FILING DATE: 1998-09-09 |
| NUMBER OF SEQ ID NOS: 174 |
| SEQ ID NO 31 |
| SEQ ID NO 31 |
| LENGTH: 15 |
| WANTER OF SEC |
| WANTER OF SEC |
| LENGTH: 15 |
| WANTER OF SEC |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14; Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCATION: (1). (15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; NAME/KEY: MISC_FEATURE

: LOCATION: (1)...(15)

; OTHER INPERMATION: Cryjl peptide, Figure 1, Row

US-10-354-240-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB
15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 38.2%; Score 39;
80.0%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Cryptomeria japonica
                                     1 MNIKLKMPMYIAGYK 15
6 LNIKLNMPLYIAGNK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 IFSKNLNIKL 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-354-240-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 5
                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Dairiki, Kazuo
APPLICANT: Dairiki, Kazuo
APPLICANT: Mama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103D1
CURRENT FILING DATE: 1030-10.29
PRIOR PELING DATE: 2003-01-29
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFFWARE: PatentIn version 3.1
SEQ ID NO 30
LENGTH: 15
                                                                                                                                                                                       APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Lwama, Akiko
APPLICANT: Iwama, Akiko
TITLE OF INVENTION, Chauke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 58.8%; Score 60; DB 14; Length 15; Best Local Similarity 73.3%; Pred. No. 0.0046; Matches 11; Conservative 2; Mismatches 2: Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 57.8%; Score 59; DB 14; Length 15; Best Local Similarity 73.3%; Pred. No. 0.0068; Matches 11; Conservative 2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCATION: (1) (15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 15
US-10-354-240-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LOCATION: (1).7(15)
CTHER INFORMATION: Cryjl peptide, Figure 1, Row 16
US-10-354-240-30
                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 2003-01-29
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
PRIOR PLING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: PatentIn version 3.1
SEQ ID NO 29
LENGTH: 15
                                                      Sequence 29, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 30, Application US/10354240
Publication No. US20030185847A1
GENERAL INFORMATION:
APPLICANT: Sone, Toshio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 IFSKNLNIKLNMPLY 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Sone, Toshio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-354-240-30
                       US-10-354-240-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ద
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                            Sequence 42, Application US/10402954;
Publication No. US20030175243A1
GENERAL INFORMATION:
APPLICANT: TRANSGENE S.A.
TITLE OF INVENTION: Modified adenoviral fiber and target adenoviruses;
FILE REFERENCE: D16813
FURRENT APPLICATION NUMBER: US/10/402,954
CURRENT FILING DATE: 2003-04-01
PRIOR PELICATION NUMBER: US/09/402,401C
PRIOR FILING DATE: 1999-10-04
PRIOR FILING DATE: 1999-10-04
PRIOR FILING DATE: 1999-10-04
PRIOR FILING DATE: 1998-04-02
NUMBER OF SEQ ID NOS: 46
SOFTWARE: PATENTIN Ver. 2.2
                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 714, Application US/09809391
Fublication No. US20030049618A1
GENERAL INFORMATION:
TITLE OF INVENTION: 186 Human Secreted proteins
FILE REFERENCE: PZ002DP
CURRENT APPLICATION WUMBER: US/09/809,391
CURRENT FILING DATE: 2001-03-16
Prior application data removed - consult PALM or file wrapper
NUMBER OF SEQ ID NOS: 761
SOFTWARE: Patentin Ver. 2.0
                                    37.3%; Score 38; DB 14; Length 15; 77.8%; Pred. No. 23; tive 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          34.3%; Score 35; DB 10; Length 13; 60.0%; Pred. No. 61; tive 2; Mismatches 2; Indela
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 37; DB 14; Length 19;
Pred. No. 43;
3; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; Sequence 714, Application US/09882171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT ORGANISM: Ad3 fiber Mastadenovirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 50.0%;
Matches 6; Conservative
                  Query Match
Best Local Similarity 77.8.
Best Local Similarity 77.8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 60.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4 KNLNIKLNMPLY 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11 NMPLYIAGNK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |:|: | |||
1 NVPILILGNK 10
                                                                                                                  12 MPLYIAGNK 20
                                                                                                                                                      2 MPMYIAGYK 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Homo sapiens
US-09-809-391-714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 8
US-09-882-171-714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-809-391-714
US-10-354-240-31
                                                                                                                                                                                                                                  US-10-402-954-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-402-954-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 714
                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           음
```

```
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICATT: Ruben et al.
TITLE OF INVENTION: 186 Human Secreted proteins
FILE REFERENCE: PZOGO2P2
CURRENT PAPLICATION NUMBER: US/99/882,171
CURRENT FILING DATE: 2001-06-18
PRIOR APPLICATION NUMBER: 09/149,476
PRIOR PILING DATE: 2001-03-16
PRIOR FILING DATE: 1998-03-08
PRIOR FILING DATE: 1998-03-08
PRIOR FILING DATE: 1998-03-06
PRIOR PILING DATE: 1997-03-07
PRIOR APPLICATION NUMBER: 60/040,162
PRIOR APPLICATION NUMBER: 60/040,333
PRIOR FILING DATE: 1997-03-07
PRIOR PILING DATE: 1997-03-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,502
FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,633
FILING DATE: 1997-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 1997-03-07
APPLICATION WOMBER: 60/040,163
APPLICATION NUMBER: 60/047,600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,615
FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,597
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 60/047,503
FILING DATE: 1997-05-23
FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 60/047,500
FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 60/047,601
FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/043,580
FILING DATE: 1997-04-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 60/047,583
FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,617
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,584
FILING DATE: 1997-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,596
FILING DATE: 1997-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,581
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 60/047,612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,632
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 60/047,492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 1997-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 1997-05-23
```

```
R FILING DATE: 1997-04-11
R APPLICATION NUMBER: 60/043,313
R FILING DATE: 1997-04-11
R PELLATION NUMBER: 60/043,672
R FILING DATE: 1997-04-11
R APPLICATION NUMBER: 60/043,315
                                                                                                  APPLICATION NUMBER: 60/043,569
FILING DATE: 1997-04-11
APPLICATION NUMBER: 60/043,311
FILING DATE: 1997-04-11
                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 60/043,674
FILING DATE: 1997-04-11
APPLICATION NUMBER: 60/043,669
FILING DATE: 1997-04-11
APPLICATION NUMBER: 60/043,312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,662
FILING DATE: 1997-08-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,888
FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,879
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 1997-08-22
APPLICATION WINHER: 60/056,894
ELING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,636
FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,874
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,910
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 60/048,974
FILING DATE: 1997-06-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,878
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 60/056,872
FILING DATE: 1997-08-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,864
                                               APPLICATION NUMBER: 60/043,314
FILING DATE: 1997-04-11
                                                                                                                                                                                                               APPLICATION NUMBER: 60/043,671
FILING DATE: 1997-04-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: 60/056,886
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 60/056,889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,893
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 60/056,882
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 1997-08-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 1997-08-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 1997-08-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 1997-04-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
PRESENCE PRE
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             °,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "US-10-164-861-714

Sequence 714, Application US/10164861

Publication No. US20030225248A1

GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: 186 Human Secreted proteins
FILE REFERENCE: PZ002P1

CURRENT APPLICATION NUMBER: US/10/164,861

CURRENT FILING DATE: 2002-06-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 35; DB 1
Pred. No. 61;
2; Mismatches
PRIOR FILING DATE: 1997-05-23
PRIOR APPLICATION NUMBER: 60/047,599
PRIOR FILING DATE: 1997-05-23
PRIOR PELING DATE: 1997-06-23
PRIOR PELING DATE: 1997-04-11
PRIOR PELING DATE: 1997-04-11
PRIOR PELING DATE: 1997-04-11
PRIOR PELING DATE: 1997-06-22
PRIOR APPLICATION NUMBER: 60/056,681
PRIOR PELING DATE: 1997-08-22
PRIOR APPLICATION NUMBER: 60/056,897
PRIOR PELING DATE: 1997-08-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     34.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |:|: | |||
NVPILILGNK 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NMPLYIAGNK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
```

ö

g

ઠે

```
APPLICANT: Fischer, Robert L.
APPLICANT: Chad, Nir
APPLICANT: Chad, Nir
APPLICANT: Kiyosue, Tomohiro
APPLICANT: Yadegari, Ramin
APPLICANT: Wargossian, Linda
APPLICANT: Wargossian, Linda
APPLICANT: Harada, John
APPLICANT: Harada, John
APPLICANT: Hologory, Robert B.
APPLICANT: The Regents of the University of California
APPLICANT: Combinations of Nucleic Acids That Control Seed and
TITLE OF INVENTION: Fruit Development in Plants
FILE REFERENCE: 023070-0861100S
CURRENT APPLICATION NUMBER: US/10/213,512
CURRENT FILING DATE: 2002-08-06
PRIOR PILING DATE: 1998-10-22
PRIOR APPLICATION NUMBER: US 09/071,838
PRIOR PILING DATE: 1998-05-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4; Indels
                                                                                                                                                            Acids That Control Seed and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OPERATING SYSTEM: PC_DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,838
FILING DATE: 01-MAY-1998
CLASSIFICATION: 800
ATTORNEY/AGBNT INFORMATION:
NAME: Bastian, Kevin L.
RESTSATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 023070-086100US
TELECOMMUNICATION:
                                                                                                    APPLICANT: Harada, John
APPLICANT: Goldberg, Robert B.
TITLE OF INVENTION: Nucleic Acids That Control 5
TITLE OF INVENTION: Fruit Development in Plants
NUMBER OF SEQUENCES: 324
CORRESPONDENCE ADDRESS: ADDRESS: ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No. 4.2e+02;
5; Mismatches 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 244, Application US/10213512
Publication No. US20030110536A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEPHONE: (415) 576-0200
TELEPAX: (415) 576-0300
INPORMATION FOR SEQ ID NO: 244:
SEQUENCE CHARACTERISTICS:
                             Kiyosue, Tomohiro
Yadegari, Ramin
Margossian, Linda
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7 NIKLNMPLYIAGNK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 NLKNHLPIYYLINR 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 30.4
Best Local Similarity 35.7
Matches 5; Conservative
                                                                                                                                                                                                                                                                         STREET: Two Endoction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY: linear

MOLECULE TYPE: peptide
US-09-071-838-244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JS-10-213-512-244
                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-II--7/-993-150

Sequence 150, Application US/1077893

Publication No. US2050003450A1

GENERAL INFORMATION:

APPLICANT: Cell Signaling Technology, Inc.

APPLICANT: ALMS, Hui

APPLICANT: ZHAN, Xiangming

APPLICANT: ZHAN, Xiangming

APPLICANT: CAST-301 CIP

CURRENT TIMO OF MODIFIED PEPTIDES FROM COMPLEX MIXTUR

FILE OF INVENTION: IMMUNOAFFINITY ISOLATION OF MODIFIED PEPTIDES FROM COMPLEX MIXTUR

FILE OF INVENTION: IMMUNOAFFINITY 1801-12

APPLICANT: AND YI

TITLE OF INVENTION NUMBER: US/10/777,893

CURRENT FILING DATE: 2004-02-12

PRIOR PELING DATE: 2000-06-19

PRIOR PELING DATE: 2000-06-29

PRIOR APPLICATION NUMBER: US 60/299,893

PRIOR PELING DATE: 2000-06-21

PRIOR PELING DATE: 2001-06-21

PRIOR FILING DATE: 2001-06-21

PRIOR FILING DATE: 2001-11-08

NUMBER OF SEQ ID NOS: 163

SEQ ID NO 150

LENGTH. 11

TABLE DEBOTED

LENGTH. 11

THENTY THENTY DATE: 2001-11-08

LENGTH. 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                   ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30.4%; Score 31; DB 17; Length 11; 71.4%; Pred. No. 2.4e+02; tive 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                 DB 15; Length 13;
                                                                                                                                                                                                                                                                                                                                                                 2; Indels
                                                                                                                                                                                                                                                                                                              Score 35; DB 1
Pred. No. 61;
2; Mismatches
                       PRIOR FILING DATE: 1998-09-08
PRIOR APPLICATION NUMBER: PCT/US98/04493
PRIOR FILING DATE: 1998-03-06
NUMBER OF SEQ ID NOS: 757
SOFTWARE: Patentin Ver: 2.0
SEQ ID NO 714
LENGTH: 13
PRIOR APPLICATION NUMBER: US/09/149,476
PRIOR FILING DATE: 1998-09-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 244, Application US/09071838
Patent No. US20020125501A1
GENERAL INFORMATION:
APPLICANT: Fischer, Robert L.
                                                                                                                                                                                                                                                                                                              34.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                              6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                              1 NVPILILGNK 10
                                                                                                                                                                                                                                                                                                                                                                                                                11 NMPLYIAGNK 20
                                                                                                                                                                                                         TYPE: PRT
CORGANISM: Homo sapiens
US-10-164-861-714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |||| |:
4 LNMPAYV 10
                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 6; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10 LUMPLYI 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: MOD RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-071-838-244
```

g

ö

```
RESULT 15
US-10-115-123-525
US-10-012-542-525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 525
                                                                                                                                                             ò
                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                 ô
                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 525, Application US/10012542

Publication No. US20030044851A1

GENERAL INFORMATION:

APPLICANT: Ruben et al.

TITLE OF INVENTION: 94 Human Secreted Proteins
FILE REFRENCE: P2029P1

CURRENT APPLICATION NUMBER: US/10/012,542

CURRENT FILING DATE: 2001-12-12

PRIOR APPLICATION NUMBER: BARLIER APPLICATION NUMBER: 09/461,325

PRIOR PILING DATE: EARLIER FILING DATE: 1999-12-14

PRIOR APPLICATION NUMBER: BARLIER APPLICATION NUMBER: 60/089,507

PRIOR PLING DATE: EARLIER FILING DATE: 1998-06-16

PRIOR PLING DATE: EARLIER FILING DATE: 1998-06-16

PRIOR PLING DATE: EARLIER FILING DATE: 1998-06-16

PRIOR APPLICATION NUMBER: BARLIER APPLICATION NUMBER: 60/089,509

PRIOR PLING DATE: EARLIER FILING DATE: 1998-06-16

PRIOR PLING DATE: EARLIER FILING DATE: 1998-06-22

PRIOR PLING DATE: EARLIER FILING DATE: 1998-06-22

NUMBER OF SEQ ID NOS: 532

LENGTH: 13

**WOOF DATE
                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29.4%; Score 30; DB 17; Length 10; 75.0%; Pred. No. 3.2e+02; tive 1; Mismatches 1; Indels
                                                                                                                                                        Score 31; DB 14; Length 18;
Pred. No. 4.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 116, Application US/10936237
Publication No. US20050106563A1
GENERAL INFORMATION:
APPLICANT: HUANG, JEN-PIN
APPLICANT: CHEN, LEE-HSUAN
TILLE OF INVENTION: EPITOPE PROFILE OF SARS CORONAVIRUS
FILE REFERENCE: 09468.0004
CURRENT FILING DATE: 2004-09-08
NUMBER OF SEQ ID NOS: 195
SOFTWARE: Patentin version 3.2
SEQ ID NO 116
LENGTH: 10
                                                                                                                                                                                                              4; Indels
                                                                                                                                                                                                              5; Mismatches
                                                                                                                                                        Query Match
Best Local Similarity 35.7%;
Matches 5; Conservative
                                                                                                                                                                                                                                                                 7 NIKLNMPLYIAGNK 20
                                                                                                                                                                                                                                                                                               |:| ::|:|
1 NLKNHLPIYYLINR 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT; ORGANISM: SARS Coronavirus
US-10-936-237-116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 75.0
Matches 6; Conservative
                                           TYPE: PRT;
CRGANISM: Arabidopsis sp.
US-10-213-512-244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7 NIKLNMPL 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 NILLNVPL 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 14
US-10-012-542-525
                                                                                                                                                                                                                                                                                                                                                                                              RESULT 13
US-10-936-237-116
SEQ ID NO 244
LENGTH: 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                    ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
0
29.4%; Score 30; DB 14; Length 13; 55.6%; Pred. No. 4.2e+02; ive 4; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 30; DB 14; Length 13; Pred. No. 4.2e+02; 4; Mismatches 0; Indels
                                                                                                                                                                                                                                                                          Sequence 525, Application US/10115123

Publication No. US20030065151A1

GENERAL INFORMATION:

APPLICANT: Ruben et al.

TITLE OF INVENTION: 94 Human Secreted Proteins
FILE REFERENCE: P2029G30APD102

CURRENT APPLICATION NUMBER: US/10/115,123

CURRENT FILING DATE: 2002-04-04

PRIOR APPLICATION NUMBER: ECT/US99/13418

PRIOR FILING DATE: 1999-06-15

PRIOR FILING DATE: 1998-06-16

PRIOR FILING DATE: 1998-06-16

PRIOR APPLICATION NUMBER: 60/089,509

PRIOR FILING DATE: 1998-06-16

PRIOR APPLICATION NUMBER: 60/080,510

PRIOR APPLICATION NUMBER: 60/080,510

PRIOR FILING DATE: 1998-06-16

PRIOR APPLICATION NUMBER: 60/090,112

PRIOR APPLICATION NUMBER: 60/090,112

PRIOR APPLICATION NUMBER: 60/090,113

PRIOR APPLICATION NUMBER: 60/090,113

PRIOR FILING DATE: 1998-06-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Search completed: June 20, 2005, 15:55:10 Job time : 54.45 sec8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 532
SOFTWARE: PatentIn Ver. 2.0
  Query Match
Best Local Similarity 55.6
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 29.4
Best Local Similarity 55.6
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-115-123-525
                                                                                                                                   3 IFAKHLSVK 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3 IFAKHLSVK 11
                                                                                                         1 IFSKNLNIK 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 IFSKNLNIK 9
```

us-09-202-464-12.rapb

Page

```
(without alignments)
143.678 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/USO7_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/PCT NEW PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/NSO6_NEW PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/NSO6_PUBCOMB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/NSO6_PUBCOMB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/NSO8_NEW PUB.pep:*
7/cgn2_6/ptodata/2/pubpaa/NSO8_NEW PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/NSO8_NEW PUB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/NSO8_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/NSO8_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/USO9_NEW PUB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/USO9_NEW PUB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/USO9_NEW PUB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/USIOB_PUBCOMB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/USIOB_PUBCOMB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/USIOB_PUBCOMB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/USIOB_NEW PUB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/USIOB_NEW PUB.pep:*
20: /cgn2_6/ptodata/2/pubpaa/USIOB_NEW PUB.pep:*
21: /cgn2_6/ptodata/2/pubpaa/USIOB_NEW PUB.pep:*
22: /cgn2_6/ptodata/2/pubpaa/USIOB_NEW PUB.pep:*
                                                                                                                                                                                        June 20, 2005, 14:14:01 ; Search time 53.45 Seconds
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1714042 segs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                              OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                          US-09-202-464-12
112
1 TIDGRGAEVHIGNGGPCLFM 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                            BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                             Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Database :
                                                                                                                                                                                                                                                                                                                                                                                                  Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Searched:
                                                                                                                                                                                               Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description	Sequence 34, Appl	Sequence 33, Appl	Sequence 35, Appl	Sequence 32, Appl	Sequence 37, Appl	Sequence 5, Appli	Sequence 119, App	Sequence 119, App	Sequence 119, App	Sequence 2, Appli	Sequence 9, Appli
ΩI	US-10-354-240-34	US-10-354-240-33	US-10-354-240-35	US-10-354-240-32	US-10-507-734-37	US-09-876-204-5	US-10-062-548-119	US-10-918-446-119	US-11-002-755-119	US-09-764-163-2	US-10-668-778-9
80	14	14	14		18	о С	14	11	19	10	15
* Query Match Length DB ID	15	15	15	15	18	20	16	16	16	18	18
* Query Match	62.5	60.7	46.4	35.7	35.7	35.7	33.0	33.0	33.0	33.0	33.0
Score	70	89	52	40	40	40	37	37	37	37	37
Result No.	1	7	٣	4	ß	9	7	80	σ	10	11

4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	32, 16, 41, 852, 39,	103, 70, 7 197, 203, 2, Aj	215, 107, 887, 16, 11, A	Sequence 13, Appl Sequence 89, Appl Sequence 69, Appl Sequence 102, App Sequence 61, Appl Sequence 37, Appl Sequence 54, Appl Sequence 54, Appl
9 US-09-876-204-4 14 US-10-280-066-467 10 US-09-852-10-113 14 US-10-373-540-17 15 US-10-411-336A-113 16 US-10-732-35-20	0-432- 0-832- 0-890- 0-362-	US-0 US-1 US-1 US-1		15 US-10-466-205-13 19 US-11-028-539-89 19 US-11-028-539-102 15 US-10-469-837-60 15 US-10-469-837-61 10 US-09-894-594-54 14 US-10-082-830-160
222222222222222222222222222222222222222		28.6 28.6 1 27.7 1 27.7	27.72 27.72 27.72 27.72 27.72	26.8 10 26.8 10 26.8 10 26.8 110 26.8 113 26.8 113 26.8 115 26.8 1
111111111111111111111111111111111111111	. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	30 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~

ALIGNMENTS

```
US-10-354-240-34

US-10-354-240-34

US-10-354-240-34

Sequence 34, Application US/10354240

Publication No. US20030185847A1

GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Wama, Akiko
APPLICANT: Wama, Akiko
APPLICANT: Mama, Akiko
APPLICANT: Mama, Akiko
APPLICANT: Mama, Akiko
APPLICANT: Number SP0-103D1
CURRENT FILING DATE: 2003-01-29
PRIOR APPLICATION NUMBER: US/10/354,240

CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: US 09/142,524
PRIOR PILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174

SEQ ID NO 34

LENGTHR: 15

LENGTHR: 15

TYPE: PRT

PROFILE PROFILE PROPER SP0-09

NUMBER: CTYPTOMER: AMAREMENT OF SP0-09

SPEATURE: PATENTIAN OF SP0-09

NUMBER: PATENTIAN OF SP0-09

NUMBER: PATENTIAN OF SP0-09

SPEATURE: PATENTIAN OF SP0-09

NUMBER: PATENTIAN OF SP0-09

SPEATURE: PATENTIAN OF SP0-09

SP0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 62.5%; Score 70; DB 14; Length 15; Best Local Similarity 73.3%; Pred. No. 0.002; Matches 11; Conservative 4; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: MISC_FEATURE

1 LOCATION: (1)..(15)

1 LOCATION: CIV).. (15)

1 US-10-354-240-34
```

ô

Gaps ö

```
USCULORARE: 1997-0010854740

Sequence 32, Application US/10354240

Sequence 32, Application No. US2030185847A1

Sepuence 32, Application No. US2030185847A1

Sepuence 32, Application No. US2030185847A1

Sepuence 32, Application No. US2030185847A1

APPLICANT: Sone, Toshio

APPLICANT: Wame, Akinori

APPLICANT: Wame, Akino

APPLICANT: Wame, Akino

APPLICANT: Wazuo

APPLICAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: DONATE, Fernando
APPLICANT: DONATE, Fernando
APPLICANT: JUAREZ, Jose
APPLICANT: JUAREZ, Jose
APPLICANT: JUAREZ, Jose
TITLE OF INVENTION: CELL SURFACE TROPOMYOSIN AS A TARGET OF ANGIOGENESIS INHIBITION
FILE REFERENCE: 28932.att5
CURRENT PILING DATE: 2004-09-15
PRIOR PILING DATE: 2003-03-17
PRIOR FILING DATE: 2003-03-17
PRIOR FILING DATE: 2002-03-15
NUMBER OF SEQ ID NOS: 39
SOFTWARE: PATCHIN VERSION 3.2
SOFTWARE: PATCHIN VERSION 3.2
SEQ ID NO 37
LENGTH: 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                            ö
                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                            ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 40; DB 14; Length 15;
Pred. No. 56;
2; Mismatches 1; Indels
                           DB 14; Length 15;
                                                                                            0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    , OTHER INFORMATION: Cryjl peptide, Figure 1, Row 18 US-10-354-240-32
                           46.4%; Score 52; DB 1480.0%; Pred. No. 0.94;
                                                                                         2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-507-734-37
Sequence 37. Application US/10507734
Publication No. US20050124794A1
GENERAL INFORNATION:
APPLICANT: McCRAE, Keith
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 35.7%;
Best Local Similarity 70.0%;
Matches 7; Conservative 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Artificial Sequence
                           Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                          11 IGNGGPCLFM 20
                                                                                                                                                                                                                        1 IGNGGPCVFI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 TIDGRGAEVH 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TFDGRGAQVY 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                 US-10-354-240-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 32
                                                                                                                                                                 8
                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Some, Toshio

APPLICANT: Some, Akinori

APPLICANT: Nume, Akinori

APPLICANT: Nama, Akinori

APPLICANT: Iwama, Akino

APPLICANT: Iwama, Akino

APPLICANT: Iwama, Akino

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Disea

FILER REFERENCE: SPO-103D1

CURRENT APPLICATION NUMBER: US/10/354,240

CURRENT APPLICATION NUMBER: DCT/JP97/00740

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: PatentIn version 3.1

SEQ ID NO 35

LUMBER OF SEQ ID NO 35

LUMBER OF SEQ ID NO 35

LUMBER OF SEQ ID NO 35
                                                                                                                                                                                                                                                                                                                           APPLICANT: Kune, Akinori
APPLICANT: Kuawa, Akinori
APPLICANT: Wama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103D1
CURRENT APPLICATION NUMBER: US 10/10/354,240
CURRENT FILING DATE: 1998-09-09
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 33
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 60.7%; Score 68; DB 14; Length 15; Best Local Similarity 80.0%; Pred. No. 0.004; Matches 12; Conservative 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               , LOCATION: (1)...(15)
, OTHER INFORMATION: Cryjl peptide, Figure 1, Row 19
US-10-354-240-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 33, Application US/10354240
Publication No. US20030185847A1
GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 35, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 TFDGRGAQVXIGNGG 15
6 GAEVHIGNGGPCLFM 20
                                  1 GAQVYIGNGGPCVFI 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 TIDGRGAEVHIGNGG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 3
US-10-354-240-35
                                                                                                                                                                                            US-10-354-240-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
ઠે
                                                          음
```

Pred. No. 1.7e+02;

```
Best Local Similarity 46.2%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                           Publication No. US2
GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-918-446-119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JS-11-002-755-119
                                                                                                                             ð
                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                   ö
                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                   ;
                                                                                                                     Score 40; DB 18; Length 18;
Pred. No. 68;
2; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 40; DB 9; Length 20;
Pred. No. 76;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
APPLICANT: GORDON C. Shore et al.
TITLE OF INVENTION: BAX-MEDIATED APOPTOSIS MODULATING
TITLE OF INVENTION: BAX-MEDIATED AND METHODS;
TITLE OF INVENTION: REAGENTS AND METHODS;
FILE REFERENCE: 50013/011001
CURRENT APPLICATION NUMBER: US/09/876,204
CURRENT FILING DATE: 2001-06-06
PRIOR APPLICATION NUMBER: 09/166,028
PRIOR FILING DATE: 1998-10-05
NUMBER OF SEQ ID NOS: 7
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 5.
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Rosen et al.
ITILE OF INVENTION: 44 Human Secreted Proteins
ITILE REPERENCE: P2024P1
CURRENT APPLICATION NUMBER: US/10/062,548
CURRENT FILING DATE: 2002-02-05
FRIOR APPLICATION NUMBER: 09/369,247
FRIOR APPLICATION NUMBER: 60/074,118
FRIOR PILING DATE: 1999-08-05
FRIOR APPLICATION NUMBER: 60/074,118
FRIOR APPLICATION NUMBER: 60/074,157
FRIOR APPLICATION NUMBER: 60/074,157
FRIOR APPLICATION NUMBER: 60/074,137
FRIOR APPLICATION NUMBER: 60/074,137
FRIOR APPLICATION NUMBER: 60/074,137
FRIOR APPLICATION NUMBER: 60/074,137
FRIOR APPLICATION NUMBER: 60/074,141
FRIOR APPLICATION NUMBER: 60/074,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2; Mismatches
; OTHER INFORMATION: synthetic sequence US-10-507-734-37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; Sequence 119, Application US/10062548
; Publication No. US20030096982A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 5, Application US/09876204
Patent No. US20020052316A1
                                                                                                             Query Match
Best Local Similarity 50.0%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 53.3%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 IDGRGAEVHIGNGGP 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MDGSGD--HLGGGGP 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Rattus norvegicus
                                                                                                                                                                                                                                                                  6 GAEVHIGNGGPC 17
                                                                                                                                                                                                                                                                                                                     7 GDGTYLGGGGPC 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-062-548-119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-876-204-5
                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
```

33.0%; Score 37; DB 14; Length 16;

Query Match

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
  ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 37; DB 17; Length 16;
Pred. No. 1.7e+02;
2; Mismatches 5; Indels
  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION:
TITLE OF INVENTION: 44 Human Secreted Proteins
FILE REFERENCE: PZ024P1C1D3
CURRENT APPLICATION NUMBER: US/11/002,755
CURRENT PILING DATE: 2004-12-03
PRIOR PILING DATE: 2002-05-02
PRIOR PILING DATE: 1999-08-05
PRIOR FILING DATE: 1998-02-09
                                                                                                                                                                                                                                                                                                                      GENERAL INCOMENTION:

J. GENERAL INCOMENTION:

TITLE OF INVENTION:

TITLE OF INVENTION:

TITLE OF INVENTION:

FILE REFERENCE: PZ024PLCID1

CURRENT APPLICATION NUMBER: US/10/918,446

CURRENT FILING DATE: 2002-06-16

PRIOR PELICATION NUMBER: 10/62,548

PRIOR APPLICATION NUMBER: 09/369,247

PRIOR PILING DATE: 1999-08-05

PRIOR FILING DATE: 1999-08-05

PRIOR FILING DATE: 1999-00-04

PRIOR FILING DATE: 1998-02-09

PRIOR FILING DATE: 1998-02-09

PRIOR FILING DATE: 1998-02-09

PRIOR FILING DATE: 1998-02-09

PRIOR PLING DATE: 1998-02-09

PRIOR FILING DATE: 1998-02-09

PRIOR PLING DATE: 1998-02-09

PRIOR FILING DATE: 1998-02-09

PRIOR FILING DATE: 1998-02-09

PRIOR FILING DATE: 1998-02-09

PRIOR FILING DATE: 1998-02-09

NUMBER OF SEQ ID NOS: 172

SOPTWARE: PATENTIN UMBER: 60/074,141

PRIOR FILING DATE: 1998-02-09

NUMBER OF SEQ ID NOS: 172

SOPTWARE: PATENTIN UMBER: 60/074,141

PRIOR FILING DATE: 1998-02-09

NUMBER OF SEQ ID NOS: 172

SEQ ID NOIS:
2; Mismatches
                                                                                                                                                                                                                                                      Sequence 119, Application US/10918446
Publication No. US20050009085A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 119, Application US/11002755
Publication No. US20050079537A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    33.0%;
Similarity 46.2%;
6; Conservative
                                                    4 GRGAEVHIGNGGP 16
                                                                                          | ::| |||
GTSPEAYVGPGGP 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4 GRGAEVHIGNGGP 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | | ::| |||
1 GTSPEAYVGPGGP 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 6; Conserv
```

```
RESULT 13
US-10-280-066-467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-876-204-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-876-204-4
                                                                                                                                                                       LENGTH: 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                  FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;
0
                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                 .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PEATURE:
OTHER INFORMATION: Description of Artificial Sequence: library
OTHER INFORMATION: generated random peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 33.0%; Score 37; DB 10; Length 18; Best Local Similarity 46.7%; Pred. No. 1.9e+02; Matches 7; Conservative 2; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                 Length 16;
                                                                                                                                                                                                                                                                                               Score 37; DB 19; Length 16
Pred. No. 1.7e+02;
2; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-76-163-2

1 Sequence 2, Application US/09764163

2 Sequence 2, Application US/09764163

3 Publication No. US20030165825A1

3 APPLICANT: Panorama Research, Inc.

4 APPLICANT: BALINT, Robert F

5 APPLICANT: BALINT, Robert F

7 TILE OF INVER, Jeng-Horng

7 TILE OF INVERNION: INTERACTION-ACTIVATED PROTEINS

FILE REFERENCE: PARE.02.020S

7 CURRENT FILING DATE: 2001-01-16

7 PRIOR APPLICATION NUMBER: 60/175,968

7 PRIOR APPLICATION NUMBER: 09/526,126

7 PRIOR PILING DATE: 2000-01-13

7 SOFTWARE: PALCHING DATE: 2000-01-15

7 SOFTWARE: PALCHING DATE: 2000-01-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 9, Application US/10668778
| Publication No. US20040038317A1
| GENERAL INFORMATION:
| APPLICANT: Balint, Robert F. APPLICANT: Har, Jong-Horng
| APPLICANT: KaloBios, Inc.
| TITLE OF INVENTION: Interaction-Activated Proteins FILE REFERENCE: 021167-000700US
| CURRENT APPLICATION NUMBER: US/10/668,778
| CURRENT FILING DATE: 2003-09-22
| PRIOR APPLICATION NUMBER: US/09/526,106
| PRIOR FILING DATE: 1999-03-15
| PRIOR FILING DATE: 1999-03-15
PRIOR APPLICATION NUMBER: 60/074,341
PRIOR FILING DATE: 1998-02-09
PRIOR FILING DATE: 1998-02-09
PRIOR FILING DATE: 1998-02-09
NUMBER OF SEQ ID NOS: 172
SOFTWARE: PATENTIN Ver. 2.0
SEQ ID NO 119
LENGTH: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 46.2%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3 DGRGAEVHIGNGGPC 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4 EGQGGVAVGGVGGPC 18
                                                                                                                                                                                                                                                                                                                                                                                              4 GRGAEVHIGNGGP 16
                                                                                                                                                                                                                                                                                                                                                                                                                                        1 GTSPEAYVGPGGP 13
                                                                                                                                                                                                                      ORGANISM: Homo sapiens
                                                                                                                                                                                                                                               US-11-002-755-119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-764-163-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-668-778-9
                                                                                                                                                                                                                                                                                                                                                                                                                                        임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                ò
```

```
APPLICANT: Brissette, Renee
APPLICANT: Spruyt, Michael
APPLICANT: Spruyt, Michael
APPLICANT: Spruyt, Michael
APPLICANT: Spruyt, Michael
APPLICANT: Blume, Arthur J.
APPLICANT: Blume, Arthur J.
APPLICANT: Goldstein, Neil I.
IITLE OF INVENTION: TARGET SPECIFIC SCREENING AND ITS USE FOR IDENTIFYING TARGET BIND.
FILE REFERENCE: 2598-4009US1
CURRENT APPLICATION NUMBER: US/10/280,066
CURRENT FILING DATE: 2002-10-24
NUMBER OF SEQ ID NOS: 537
                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                        ) OTHER INFORMATION: Description of Artificial Sequence:CD40-binding; OTHER INFORMATION: Trxpep
US-10-668-778-9
                                                                                                                                                                                                                                                                                                                                                                                                                          ;.
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ..
                                                                                                                                                                                                                                                                                                                                                                      Score 37; DB 15; Length 18;
Pred. No. 1.9e+02;
2; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 4, Application US/09876204;
Patent No. US20020052316A1
GENERAL INFORMATION:
JAPPLICANT: GOTGON C. Shore et al.
TITLE OF INVENTION: BAX-MEDIATED APOPTOSIS MODULATING
TITLE OF INVENTION: REAGENTS AND METHODS
FILE REPERRNCE: 50013/011001
CURRENT PAPLICATION NUMBER: US/09/876,204
CURRENT FILING DATE: 2001-06-06
PRIOR APPLICATION NUMBER: 09/166,028
PRIOR FILING DATE: 1998-10-05
NUMBER: PASLES OF WINDOWS VERSION 4.0
SOFTWARE: FASLES OF WINDOWS VERSION 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          32.1%; Score 36; DB 9; 46.7%; Pred. No. 3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4; Mismatches
PRIOR APPLICATION NUMBER: US 60/135,926
PRIOR FILING DATE: 1999-05-25
PRIOR APPLICATION NUMBER: US 60/175,968
PRIOR FILING DATE: 2000-01-13
NUMBER OF SEQ ID NOS: 26
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; Sequence 467, Application US/10280066; Publication No. US20030180718A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                           33.0%;
                                                                                                                                                                                                    TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Pillutla, Renuka C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3 DGRGAEVHIGNGGPC 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2 IDGRGAEVHIGNGGP 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MDGSGEQ--LGSGGP 13
                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 46.73
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity 46.7
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Mus musculus
```

ö

Gapa

ô

Score 33; DB 14; Length 13; Pred. No. 5.3e+02; 1; Mismatches 2; Indels

```
; FEATURE:
; OTHER INFORMATION: G alpha i R peptide
US-10-373-540-17
                                                                                                                                                                                                                                                                                                  Search completed: June 20, 2005, 15:55:11
Job time : 54.45 secs
                                                                                         Query Match
Best Local Similarity 66.7%;
Matches 6; Conservative
                                                                                                                                                                                    11 IGNGGPCLF 19
                                                                                                                                                                                                                                1 MGNGIKCLF
                                                                                                                                                                                      ò
                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 17, Application US/10373540

Publication No. US20030162258A1

GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
GILCHRIST, Annette
TITLE OF INVENTION: INHIBITORS OF G PROTEIN-MEDIATED SIGNALING, METHODS OF MAKING THE TITLE OF INVENTION: USES THEREOF
FILE REFERENCE: 0290-29 (NU 99037)
CURRENT APPLICATION NUMBER: US/10/373,540

CURRENT PILING DATE: 2003-02-24

PRIOR FILING DATE: PRIOR FILING DATE: 2000-01-21

NUMBER OF SEQ ID NOS: 47

SOFTWARE: PatentIn version 3.0

SEQ ID NO 17

BENGH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 113, Application US/09852910
Publication No. US20030096297A1
GENERAL INFORMATION:
APPLICANT: Hamm, Heidi
APPLICANT: Gilchrist, Annette
TITLE OF INVENTION: Method For Identifying Inhibitors of G Protein Coupled Receptor (FILE REFERENCE: 2661-101
CURRENT FILING DATE: 2001-09-18
PRIOR APPLICATION NUMBER: US 60/275,472
PRIOR APPLICATION NUMBER: US 60/275,472
PRIOR APPLICATION NOS: 271
SOFTWARE: Patentin version 3:0
SOFTWARE: Patentin version 3:0
SEQ ID NO 113
LENGTH: 13
                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                             ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                            Query Match 32.1%; Score 36; DB 14; Length 20; Best Local Similarity 46.7%; Pred. No. 3e+02; Matches 7; Conservative 2; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 29.5%; Score 33; DB 10; Length 13; Best Local Similarity 66.7%; Pred. No. 5.3e+02; Matches 6; Conservative 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: misc_feature

LOCATTON: (1)...(13)

OTHER INFORMATION: G alpha i R minigene peptide

US-09-82-910-113
                                                                                                                                   ) NAME/KEY: MISC FEATURE
; OTHER INFORMATION: FGFR1b-20R-B1
US-10-280-066-467
SOFTWARE: Patentin version 3.1
SEQ ID NO 467
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                       5 RGAEVHIGNGGPCLF 19
                                                                                                                                                                                                                                                                                                                                                   || : :|| |||
1 RGCVLEALSGGACLF 15
                                                                                           ORGANISM: Eschericia coli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11 IGNGGPCLF 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 14
US-09-852-910-113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-373-540-17
                                                                                                                  FEATURE
                                                                                                                                                                                                                                                                                                                         δ
                                                                                                                                                                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
```

```
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02154
35, Appl
34, Appl
34, Appl
34, Appl
55, Appl
119, Appl
117, Appl
17, Appl
17, Appl
17, Appl
32, Appl
32, Appl
32, Appl
49, Appl
49, Appl
49, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                             (without alignments)
92.445 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
Sequence
Sequence
                                                                                                          June 20, 2005, 14:04:11; Search time 16.15 Seconds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
             GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-08-467-023-35
US-09-142-524D-34
US-09-142-524D-35
US-08-467-023-36
US-08-467-023-36
US-09-142-524D-32
US-09-142-524D-32
US-09-142-524D-32
US-09-1467-023-34
US-09-166-17
US-09-166-17
US-09-947-372A-20
US-09-947-372A-20
US-09-947-372A-20
US-09-947-372A-20
US-08-390-448A-49
US-08-290-448A-49
US-08-461-939B-49
US-08-461-939B-49
                                                                                                                                                                                                                                                                                                                   Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                        513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                      Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                            - protein search, using sw model
                                                                                                                                                                                        112
1 TIDGRGAEVHIGNGGPCLFM 20
                                                                                                                                                                                                                                         BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Issued Patents AA:*
                                                                                                                                                                        US-09-202-464-12
                                                                                                                                                                                                                                                                                                                                                       Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                         Scoring table:
                                                                                                                                                                                         Perfect score:
                                                                            OM protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Database :
                                                                                                                                                                                                            Sequence:
                                                                                                                                                                                                                                                                                        Searched:
                                                                                                          Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Result
```

```
28 31 27.7 9 4 US-09-599-286-4 Sequence 4, Appli 29 31 27.7 13 3 US-09-258-754-107 Sequence 107, App 31 27.7 13 3 US-09-258-754-107 Sequence 107, App 32 31 27.7 13 4 US-09-722-250D-107 Sequence 107, App 32 31 27.7 13 4 US-10-152-158-2 Sequence 107, App 32 31 27.7 13 4 US-10-152-158-2 Sequence 107, App 34 31 27.7 13 4 US-09-676-475A-107 Sequence 107, App 35 31 27.7 15 5 US-08-313-982A-14 Sequence 107, App 36 30 26.8 20 1 US-08-733-995A-14 Sequence 110, Appl 37 20 25.9 12 US-08-988-242-16 Sequence 15, Appl 38 20 25.9 12 US-08-988-242-16 Sequence 10, Appl 41 29 25.9 13 4 US-08-741-171-5 Sequence 10, Appl 42 25.9 15 US-08-140-201-14 Sequence 11, Appl 44 29 25.9 18 2 US-09-017-205-17 Sequence 20, Appl 44 29 25.9 18 2 US-09-017-205-20 Sequence 20, Appl 45 29 25.9 18 2 US-09-017-205-20 Sequence 20, Appl 45 29 25.9 18 2 US-09-017-205-20 Sequence 20, Appl 45 29 25.9 18 2 US-09-017-205-20
```

```
Sequence 35, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: GILICEth, Irwin J.;
APPLICANT: Pollock, Johns;
APPLICANT: Pollock, Johns;
APPLICANT: Wellog, Sil-mei H.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Brauer, Andrew;
APPLICANT: Maltham: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 2
ADDRESSEE: Immiliation of the maccutical Corporation, Inc.
STREET: 610 Lincoln St.
CONTRIENT: Waltham
STATE: MA
COMPITER: Rabbale FORM:
MEDIUM TYPE: Ploppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/NS-DOS
SOFTWARE: Ploppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/NS-DOS
SOFTWARE: PLOPPY disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/NS-DOS
SOFTWARE: PLOPPY disk
COMPUTER: IBM PC Compatible
OPERATING DATE: Dotomatible
CLASSIFICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTOMARY AGENT INFORMATION:
TELEFOMMUNICATION NUMBER: 025.6 USD2 (IMI-028CPD2)
TELEFORM INFORMATION:
TELEFORM INFORMATION
```

```
APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Knme, Akinori
APPLICANT: Knme, Akinori
APPLICANT: Ivama, Akiko
APPLICANT: Ivama, Applicanto, Ivama, Applicanto, Ivama, Applicanto, Ivama, Applicanto, Ivama, Ivama,
                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 15;
                                                                                                                     Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          B: Immulogic Pharmaceutical Corporation, Inc. 610 Lincoln St
                                                                                        DB 4; Leus.
. 0.0012;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; LOCATION: (1). 7(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 21
US-09-142-524D-35
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 52; DB 4;
Pred. No. 0.27;
2; Mismatches
                                                                                                                                                                                                         Mismatches
                                                                                                                 60.7%; Score 68;
80.0%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 36, Application US/08467023
Fatent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: POWERS, Steven P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 35, Application US/09142524D; Patent No. 6719976; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 80.0%;
Matches 8; Conservative ;
                                                                                                                                                                                                                                                                                1 TIDGRGAEVHIGNGG 15
                                                                                                                                                                                                                                                                                                                                   | |||||:|:|||||
1 TFDGRGAQVYIGNGG 15
                                                                                                                                                       Best Local Similarity 80.0
Matches 12, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11 IGNGGPCLFM 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 IGNGGPCVFI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET: 610 Li
CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 4
US-09-142-524D-35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE:
        ; US-09-142-524D-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-467-023-36
                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Ixume, Akinori
APPLICANT: Ivama, Akiko
AP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Wime, Akinori
APPLICANT: Wime, Akinori
APPLICANT: Wama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
APPLICANT: Kino, Kohsuke
APPLICANT: Kino, Kohsuke
APPLICANT: None, Kohsuke
APPLICANT: None, Kohsuke
FILE SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT APPLICATION NUMBER: PCT/JP97/00740
PRIOR PILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 34
LENGTH: 15
                                                                                                                                                               ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                               Gaps
                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 62.5%; Score 70; DB 4; Length 15; Best Local Similarity 73.3%; Pred. No. 0.00061; Matches 11; Conservative 4; Mismatches 0; Indels
                                                                       82.1%; Score 92; DB 3; Length 20; 75.0%; Pred. No. 4.8e-07; ive 4; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: MISC FEATURE
LOCATION: (1). (15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-142-524D-34; Sequence 34, Application US/09142524D; Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 33, Application US/09142524D Patent No. 6719976 GENERAL INFORMATION:
                                                                                                                                                                                                                                           1 TIDGRGAEVHIGNGGPCLFM 20
                                                                                                                                                                                                                                                                                         1 TFDGRGAQVYIGNGGPCVFI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6 GAEVHIGNGGPCLFM 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 GAQVYIGNGGPCVFI 15
                                                                                                             Best Local Similarity 75.0 Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: MISC FEATURE LOCATION: (1)..(15)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-142-524D-34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-142-524D-33
US-08-467-023-35
                                                                               Query Match
                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ద
```

```
ö
                                                                                                                                     APPLICANT: Griffeth, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Garman, Richard D;
APPLICANT: Yeung, Siu-mel H.;
APPLICANT: Yeung, Siu-mel H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From ITTLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 3; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT: GOTGON C. Shore et al.
TITLE OF INVENTION: BAX-MEDIATED AROPTOSIS MODULATING
TITLE OF INVENTION: REAGENTS AND METHODS
FILE REFERENCE: 50013/011001
CURRENT APPLICATION NUMBER: US/99/166,028
CURRENT FILING DATE: 1998-10-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. 21;
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           35.7%; Score 40; 70.0%; Pred. No.
                                                                        Application US/08467023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 5, Application US/09166028
Patent No. 6245885
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE: (617) 227-7400
TELEPAX: (617) 227-5941
INFORMATION FOR SEO ID NO: 34,
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 70...
7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 TIDGRGAEVH 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | |||||:|:
11 TFDGRGAQVY 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ZIP: 02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 8
US-09-166-028-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
                                                                        Sequence 34,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Twama, Akiko
APPLICANT: Twama, Akiko
APPLICANT: Twama, Akiko
APPLICANT: Twama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OP INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT APPLICATION NUMBER: DCT/1997/00740
PRIOR PLING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 32
LENGTH: 15
TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           35.7%; Score 40; DB 4; Length 15; 70.0%; Pred. No. 16; 1; Indels trive 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 3; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Indels
                   MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                         025.6 USD2 (IMI-028CPD2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; LOCATION: (1). (15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 18
US-09-142-524D-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  46.4%; Score 52;
80.0%; Pred. No. (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; Sequence 32, Application US/09142524D
                                                                                                                                                                                                                                                                                              NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-5941
INFORMATION FOR SEQ ID NO: 36:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20 amino acida
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Dairiki, Kazuo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
COMPUTER READABLE FORM MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11 IGNGGPCLFM 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 TIDGRGAEVH 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       amino acid
GY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 6
US-09-142-524D-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-467-023-36
```

요

g

ઠ

```
amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-654-623-71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 4
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                 Ϊ;
                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 71, Application US/08654623
Sequence 71, Application US/08654623
Patent No. 6010884
GENERAL INFORMATION:
APPLICANT: Griffiths, Andrew D
APPLICANT: Nissim, Ahuva
APPLICANT: Fisch, Igor
APPLICANT: Nissim, Ahuva
APPLICANT: Minter, Gregory P
TITLE OF INVENTION: Recombinant Binding Proteins and Peptides
NUMBER OF SEQUENCES: 71
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                               5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3: Marshall, O'Toole, Gerstein, Murray & Borun 6300 Sears Tower, 233 South Wacker Drive
                                                                                                                                                                                   Score 40; DB 3; Length 20;
Pred. No. 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     33.0%; Score 37; DB 4; Length 16; 46.2%; Pred. No. 46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5; Indels
                                                                                                                                                                                                                               3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PAPPLICATION:
APPLIANT: Rosen et al.
TITLE OF INVENTION: 44 Human Secreted Proteins
FILE REFERENCE: PSO24P1
CURRENT PILING DATE: 1999-08-05
EARLIER APPLICATION NUMBER: 60/074,118
EARLIER PILING DATE: 1998-02-09
EARLIER PILING DATE: 1998-02-09
EARLIER PILING DATE: 1998-02-09
EARLIER FILING DATE: 1998-02-09
                                                                                                                                                                                                                               2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2; Mismatches
NUMBER OF SEQ ID NOS: 7
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 5
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 119, Application US/09369247 Patent No. 6569992
                                                                                                                                                                                Query Match
Best Local Similarity 53.3%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                           2 IDGRGAEVHIGNGGP 16
                                                                                                                                                                                                                                                                                                  1 MDGSGD--HLGGGGP 13
                                                                                      ; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-09-166-028-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4 GRGAEVHIGNGGP 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | | ::| |||
1 GTSPEAYVGPGGP 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity 46.2
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STREET: 6300 Sears Tov
CITY: Chicago
STATE: 1111nois
COUNTRY: USA
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                US-09-369-247-119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-369-247-119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 10
US-08-654-623-71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                   셤
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTEN PC-DOS/MS-DOS
SOFTWARE: PATENTIN DATA:
APPLICATION NUMBER: US/08/654,623
FILING DATE: 29-MY-1996
CLASSIFICATION: 435
CLASSIFICATION ATA:
APPLICATION NUMBER: GB 9225453.1
FILING DATE: 04-DEC-1992
PRIOR APPLICATION NUMBER: GB 9300816.7
FILING DATE: 16-JAN-1993
PRIOR APPLICATION NUMBER: EP 93303614.7
FILING DATE: 10-MAY-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9319969.3
FILING DATE: 10-MAY-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/CB93/02492
FILING DATE: 03-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: RB S412147.2
APPLICATION NUMBER: RB S412147.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  32.1%; Score 36; DB 3; Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT:
GORGON C. Shore et al.
TITLE OF INVENTION: BAX-MEDIATED APOPTOSIS MODULATING
TITLE OF INVENTION: BAX-MEDIATED APOPTOSIS MODULATING
TITLE OF INVENTION: REAGENTS AND METHODS
FILE REFERENCE: 50013/011001
CURRENT APPLICATION NUMBER: US/09/166,028
CURRENT FILING DATE: 1998-10-05
NUMBER OF SEQ ID NOS: 7
SOFTWARE: FASTSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. 60;
3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: GB 9412147.2
RILING DATE: 17-JUN-1994
RILING DATE: 17-JUN-1994
RAPPLICATION DATA:
RAPPLICATION DATA: PTILING DATE: 05-DEC-1994
PRIOR APPLICATION DATA: US 08/448,418
FILING DATE: 02-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: DAVIG W. CLOUGH
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 28111/33259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 11
US-09-166-028-4
; Sequence 4, Application US/09166028
; Patent No. 6245885
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 40.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE: (312) 474-6300 INFORMATION FOR SEQ ID NO: 71 SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4 GRGAEVHIGNGGPCL 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 GGGGSLNVGGGGSAL 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: peptide
```

ö

8 g

```
KESULT 14
US-08-981-392-32
i Sequence 3.2, Application US/08981392
i Sequence 3.2, Application US/08981392
i Patent No. 6262025
i GENERAL INFORMATION:
APPLICANT: Henrique, Domingos Manuel Pinto
APPLICANT: Henrique, Domingos Manuel Pinto
APPLICANT: Artavanis-Teakonas, Spyridon
i APPLICANT: Artavanis-Teakonas, Spyridon
ITILE OF INVENTION: OF VERTEBRATE DELTA GENES AND METHODS BASED THEREON
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: NY
COUNTED.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: NUCLEOTIDE AND PROTEIN SEQUENCES OF VERTEBRATE DELTA GENE AND METHODS BASED THEREON NUMBER OF SEQUENCES: 94
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29.5%; Score 33; DB 3; Length 16; 50.0%; Pred. No. 1.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 32, Application US/09908322;
Patent No. 6783956;
GENERAL INFORMATION:
Henrique, Domingos Manuel Pinto Lewis, Julian Hart
Artavanis-Tsakonas, Spyridon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/981,392
FILING DATE: 22-DEC-1997
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7326-038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER: 32,605
REFERENCH/DOCKET NUMBER: 73,
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212,790-9090
TELEPAX: 71,72,730-9090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     32:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Antler, Adriane M REGISTRATION NUMBER: 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3 RGMQVQSGLAGPVL 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5 RGAEVHIGNGGPCL 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 16 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: 212-869-8864
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity 50.0
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: USA
ZIP: 10036/2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRANDEDNESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 15
US-09-908-322-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-981-392-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT: HAMM, Heidi
APPLICANT: GILCHRIST, Annette
TITLE OF INVENTION: USES THEREOF
TITLE OF INVENTION: USES THEREOF
TILE REFERENCE: 0290-29 (NU 99037)
CURRENT APPLICATION NUMBER: US/09/489,156
CURRENT FILING DATE: 2000-01-21
NUMBER OF SEQ ID NOS: 47
SOFTWARE: Patentin version 3.0
SEQ ID NO 17
LENGTH: 13
                                                                                                                   ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                   Gaps
                                                                                                                 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                       Score 36; DB 3; Length 20;
Pred. No. 81;
4; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29.5%; Score 33; DB 4; Length 15; 62.5%; Pred. No. 1.7e+02; tive 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29.5%; Score 33; DB 4; Length 13; 66.7%; Pred. No. 1.4e+02; tive 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20, Application US/09947372A
Fatent No. 661357
GENERAL INFORMATION:
APPLICANT: FRAZER, IAN
APPLICANT: ZHOU, JIAN
TITLE OF INVENTION: PARILLOMAVIRUS VACCINE
FILE REFERENCE: 065064/0137
CURRENT APPLICATION NUMBER: US/09/947,372A
CURRENT FILING DATE: 1994-01-19
FRIOR APPLICATION NUMBER: OFT/AU92/02184
FRIOR FILING DATE: 1994-01-19
FRIOR FILING DATE: 1992-07-20
FRIOR PRILING DATE: 1991-07-19
FRIOR FILING DATE: 1991-07-19
FRIOR FILING DATE: 1991-07-19
NUMBER OF SEQ ID NOS: 66
SEQ ID NOS: 66
SEQ ID NOS: 66
SEQ ID NOS: 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ) OTHER INFORMATION: G alpha i R peptide US-09-489-156-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-947-372A-20
                                                                                                                                                                                                                                                                                           ; Sequence 17, Application US/09489156
; Patent No. 6559128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Artificial Sequence
                                                                       32.1%;
46.7%;
                                                                                                                                                                              :|| | : :|:||
1 MDGSGEQ--LGSGGP 13
                                                                                                                                                       2 IDGRGAEVHIGNGGP 16
                                                    Query Match
Best Local Similarity 46.77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 62.5.
....hes 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 66.7
Matches 6; Conservative
            ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11 IGNGGPCLF 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MGNGIKCLF 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10 HIGNGGPC 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-947-372A-20
                                                                                                                                                                                                                                                                        US-09-489-156-17
                  ; OKGANISH: ...
US-09-166-028-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:
```

8 셤 ઠે

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 29.5%; Score 33; DB 4; Length 16; Best Local Similarity 50.0%; Pred. No. 1.8e+02; Matches 7; Conservative 1; Mismatches 6; Indels
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: NY
COUNTRY: USA
ZIF: 10036/2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: EABLESE VERSION 2.0
COMPUTER: IBM COMPATIBLE
OPERATING SYSTEM: DOS
SOFTWARE: FEASTE VERSION 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/908,322
FILING DATE: 17-Jul-2001
CLASSIFICATION NUMBER: 08/981,392
FILING DATE: 22-DEC-1997
ATTORNEY/AGENT INFORMATION:
NAME: Misrock, S. Leslie
REGISTRATION NUMBER: 18,872
REFERENCE/DOCKET NUMBER: 7326-123
TELEFAX: 212-669-8864
TELEFAX: 212-669-8864
TELEFAX: 212-669-8864
TELEFAX: 212-669-8864
TELEFAX: 11-669-8864
TELEFAX: 11-669-8864
TELEFAX: UNKNOWN
MOLECULE TYPE: Amino acids
TYPE: Amino acids
TYPE: Amino acid
STRANDEDNESS: CURKNOWN
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 32:
US-09-908-322-32
```

Search completed: June 20, 2005, 14:22:16 Job time: 17:15 secs

3 RGMQVQSGLAGPVL 16 S RGAEVHIGNGGPCL 18

В ò

Н

```
Sequence 171, App
Sequence 13, Appl
Sequence 165, App
                                                                                                                                                                                                                                                                                                                                              (without alignments)
143.678 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 35, A
Sequence 36, A
Sequence 159,
Sequence 163,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 170,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1
Sequence 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Landished Applications Aria

(cgn2_6/prodatea/2/pubpaa/US07_PUBCOMB.pep:*

(cgn2_6/prodatea/2/pubpaa/US07_NEW_PUB.pep:*

(cgn2_6/prodatea/2/pubpaa/US06_PUBCOMB.pep:*

(cgn2_6/prodatea/2/pubpaa/US06_PUBCOMB.pep:*

(cgn2_6/prodatea/2/pubpaa/US06_PUBCOMB.pep:*

(cgn2_6/prodatea/2/pubpaa/US08_PUBCOMB.pep:*

(cgn2_6/prodatea/2/pubpaa/US08_NEW_PUB.pep:*

(cgn2_6/prodatea/2/pubpaa/US09_PUBCOMB.pep:*

(cgn2_6/prodatea/2/pubpaa/US09_PUBCOMB.pep:*

(cgn2_6/prodatea/2/pubpaa/US09_PUBCOMB.pep:*

(cgn2_6/prodatea/2/pubpaa/US09_PUBCOMB.pep:*

(cgn2_6/prodatea/2/pubpaa/US09_PUBCOMB.pep:*

(cgn2_6/prodatea/2/pubpaa/US09_PUBCOMB.pep:*

(cgn2_6/prodatea/2/pubpaa/US09_PUBCOMB.pep:*

(cgn2_6/prodatea/2/pubpaa/US10B_PUBCOMB.pep:*

(cgn2_6/prodatea/2/pubpaa/US10B_PUBCOMB.pep:*
                                                                                                                                                                                                                                                                                            June 20, 2005, 14:14:01; Search time 53.45 Seconds
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-354-240-35
US-10-354-240-159
US-10-354-240-169
US-10-354-240-169
US-10-354-240-169
US-10-354-240-149
US-10-354-240-171
US-10-354-240-171
US-10-354-240-171
US-10-354-240-171
US-10-354-240-171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1714042 segs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Published_Applications_AA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                           OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               111
1 IGNGGPCLFMRTVSHVILHG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-202-464-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query
Match Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      255234446522.0
2522.04446522.0
2522.04466.0
272.046.0
272.046.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
273.0
27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Seguence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Database
                                                                                                                                                                                                                                                                                            Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
```

7	41	96.9	12	14	IIS-10-354-240-166	Seguence 166. App
1.1	38		1:1	14	US-10-354-240-172	172,
15	36	32.4	18	18	US-10-507-734-37	
16	35	31.5	11	14	-16	167,
17	34	0	10	14	US-10-354-240-168	16
18	34	30.6	10	14	US-10-354-240-173	173,
19	34	30.6	15	14	US-10-354-240-37	37
20	33	σ	13	ដ	US-09-852-910-113	7
21	33	29.7	13	14	US-10-373-540-17	17
22	33	σ	13	12	US-10-411-336A-113	1
23	33	σ	18		US-09-865-943-76	Sequence 76, Appl
24	33	σ	18		US-09-865-943-197 .	197
25	32	æ	10	0	US-09-572-404B-852	Sequence 852, Ap
26	32	8	14	S	US-10-346-162-2	'n
27	32	æ	16		US-09-865-943-64	64,
28	32	æ	16		US-09-865-943-189	189
59	32	8	18		US-09-865-943-70	Sequence 70, Appl
30	32	8	18		US-09-865-943-192	Sequence 192, Apr
31		æ	13	0	-51	Sequence 512, App
32		æ	19	0	US-09-882-171-512	Sequence 512, App
33	31.5	œ	13	15	US-10-164-861-512	
34	m	_	15	σ	US-09-864-675-18	Sequence 18, Appl
35	31	_	18	6	US-09-865-943-75	Sequence 75, Appl
36	31	_	18	σ	US-09-865-943-196	ä
37	31	27.9	18	10	US-09-764-163-2	ø
38	31	~	18	14	US-10-106-698-7659	
39	31	27.9	18	12	US-10-668-778-9	ø,
40	31	_	50	14	US-10-280-066-467	46
41	30	_	σ	19	US-11-028-539-89	89
42	30	-	10	19	9	69
43	30	_	10	19	US-11-028-539-102	10
44	30	~	16	σ	09-865-943-	25,
45	30		16	0	-60-	
					ALIGNMENTS	
RESULT 1						
US-10-354-240-35	1-240-35					
Seguence .	35.0	Segmence 35. Application US/10354240	ion IIS	/103	54240	

```
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Mama, Akinori
APPLICANT: Kume, Kazuo
APPLICANT: Kino, Kohsuke
FULKANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REPREMENT: 2003-01-29
CURRENT FILING DATE: 2003-01-29
CURRENT FILING DATE: 1997-03-10
FRIOR FILING DATE: 1998-09-09
FRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 35
LENGTH: 15
TYPE: PRT
ORGANISM: Cryptomeria japonica
FRATURE:
NAME/KEY: MISC FEATURE
LOCATION: (1). - (15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 21
US-10-354-240-35
Query Match
Best Local Similarity 66.7%; Pred. No. 0.018;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
```

```
Sequence 163, Application US/10354240

Sequence 163, Application US/10354240

Sequence 164, Application No. US20030185847A1

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Wime, Akinori

APPLICANT: Wime, Akiko

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: PEPTING DATE: 2003-01-29

FRIOR FEDERAL FILING DATE: 1997-03-10

FRIOR PELING DATE: 1998-09-09

FRIOR PELING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: PatentIn version 3.1

FEMALE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JOHENTALING SONE, TOSHIO

JAPPLICANT: Sone, Toshio

APPLICANT: Kume, Akinori

APPLICANT: Kume, Akinori

APPLICANT: Kume, Akiko

APPLICANT: Kino, Kohsuke

JITILE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

FILE REFERENCE: SPO-103D1

CURRENT FILING DATE: 1203-01-29

PRIOR FILING DATE: 1997-03-10

PRIOR FILING DATE: 1997-03-10

PRIOR FILING DATE: 1998-09

NUMBER OF SEQ ID NOS: 174

SEQ ID NOS: 174

LENGTH: 14
                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         52.3%; Score 58; DB 14; Length 15;
llarity 60.0%; Pred. No. 0.074;
Conservative 5; Mismatches 1; Indels
                    DB 14; Length 15;
                                                                    1; Indels
                    Score 58; DB 14;
Pred. No. 0.074;
5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: MISC FEATURE
OTHER INFORMATION: Figure 15, p22-1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 169, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Cryptomeria japonica
FEATURE:
                      52.3%;
                                                                                                                                           6 PCLFMRTVSHVILHG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6 PCLFMRTVSHVILHG 20
                    Query Match
Best Local Similarity 60.0°
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity
Matches 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-354-240-169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-354-240-163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                       ઠે
                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 159, Application US/10354240
; Sequence 159, Application US/2030185847A1
; Sequence 159, Application No. US20030185847A1
; GENERAL INFORMATION:
    APPLICANT: Sone, Toshio
; APPLICANT: Numma, Akino
; APPLICANT: Namma, Akiko
; APPLICANT: Nimo, Kohanke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; TITLE OF INVENTION: POSTION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR PELING DATE: 1999-09-09
; NUMBER OF SEQ ID NOS: 174
; SEQ ID NO 159
; LENGTH: 15
; LENGTH: 15
                                                                                                                                                                                                                                                         APPLICANT: Sume, Akinori
APPLICANT: Wume, Akinori
APPLICANT: Mama, Akinori
APPLICANT: Mama, Akinori
APPLICANT: Mama, Akinori
APPLICANT: Wana, Akinori
APPLICANT: Wana, Akinori
APPLICANT: Wino, Kohauke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103101
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 1997-03-10
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             52.3%; Score 58; DB 14; Length 15; 60.0%; Pred. No. 0.074; tive 5; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCATION: (1). (15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 22
                                                                                                                                                                  ; Sequence 36, Application US/10154240; Publication No. US20030185847A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LOCATION: (1). 7(15)
OTHER INFORMATION: Figure 7, Row b
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Cryptomeria japonica
1 IGNGGPCLFMRTVSH 15
                           1 IGNGGPCVFIKRVSN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6 PCLFMRTVSHVILHG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 PCVFIKRVSNVIIHG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity 60.0
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
NAME/KEY: MISC_FEATURE
                                                                                                                                              US-10-354-240-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-354-240-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
ઠે
                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
```

```
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Mama, Akinori
APPLICANT: Iwama, Akiko
APPLICANT: Working
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 1997-03-10
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09-09
NUMBER: OF SEQ ID NOS: 174
SEQ ID NO 170
LENGTH: 13
LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Mana, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Dairiki, Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohauke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-10310
CURRENT APPLICATION NUMBER: US/10/354,240
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: US 09/142,524
PRIOR FILING DATE: 1998-09-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  39.6%; Score 44; DB 14; Length 13; 53.8%; Pred. No. 8.7; tive 5; Mismatches 1; Indels
                                                                                                                                                                                                     Score 51; DB 14; Length 14;
Pred. No. 0.8;
                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                     5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: MISC FEATURE
CTHER INFORMATION: Figure 15, p22-8.
US-10-354-240-170
                                                                                                   NAME/KEY: MISC FEATURE

OTHER INFORMATION: Figure 15, p22-2.
US-10-354-240-164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 170, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 171, Application US/10354240
Publication No. US20030185847A1
GENERAL INFORMATION:
                         TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                  Query Match
Best Local Similarity 57.1%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                    7 CLFMRTVSHVILHG 20
                                                                                                                                                                                                                                                                                                                                |:|:: ||:||:||
1 CVFIKRVSNVIIHG 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 53.0.
Tr Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6 PCLFMRTVSHVIL 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ||:|:: ||:||:
1 PCVFIKRVSNVII 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-354-240-170
       LENGTH: 14
                                                                            FEATURE:
                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Sone, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Wana, Akiko
APPLICANT: Iwana, Akiko
APPLICANT: Iwana, Akiko
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: Poptide-Based Immunotherapeutic Agent for Treating Allergic Disea
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 1997-03-10
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFTHARE: PALENTIN Version 3.1
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 180.104.

Sequence 180.104.

Publication No. US20030185847A1

GENERAL INFORMATION:

APPLICANT: Kume, Akinori

APPLICANT: Iwama, Akino

APPLICANT: Iwama, Akino

APPLICANT: Iwama, Akino

APPLICANT: Allo, Kohauke

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

FILE REFERENCE: SPO-10310

CURRENT FILING DATE: 2003-01-29

PRIOR APPLICATION NUMBER: US/10/354,240

CURRENT FILING DATE: 1997-03-10

PRIOR FILING DATE: 1998-09-09

WRICK FILING DATE: 1998-09-09
                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                 Score 52; DB 14; Length 14;
Pred. No. 0.57;
5; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     46.8%; Score 52; DB 14; Length 15; 80.0%; Pred. No. 0.61; tive 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCATION: (1). (15)

CTHER INFORMATION: Cryjl peptide, Figure 1, Row 120

US-10-354-240-34
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-7.
US-10-354-240-169
                                                                                                                                                                                                                                                                                                                                                                         ; Sequence 34, Application US/10354240 ; Publication No. US20030185847A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                 Query Match
Best Local Similarity 57.1%;
Matches 8; Conservative
                                                                                                                                                                                                6 PCLFMRTVSHVILH 19
                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 IGNGGPCLFM 10
|||||||:|:
6 IGNGGPCVFI 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-354-240-164
                                                                                                                                                                                                                                                                                                                                                  US-10-354-240-34
                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
```

```
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Lwama, Akiko
APPLICANT: Lwama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-10301
CURRENT FILING DATE: 2003-01-29
CURRENT FILING DATE: 1997-03-10
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09
NUMBER OF SEQ ID NOS: 174
SEQ ID NOS: 174
SEQ ID NO 174
LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Sone, Toshio
APPLICANT: Wine, Akinori
APPLICANT: Wane, Akinori
APPLICANT: Lairiki, Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Mio, Kohauke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103D1
CURRENT APPLICATION WINBER: US/10/354,240
CURRENT FILING DATE: 2003-01-29
PRIOR APPLICATION NUMBER: PCT/JP97/00740
                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                               Length 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 42; DB 14; Length 13;
Pred. No. 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1; Indels
                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                             Score 42; DB 14;
Pred. No. 18;
5; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ) NAME/KEY: MISC FEATURE
) OTHER INFORMATION: Figures 17 and 18.
US-10-354-240-174
                                                                                                                                   ) NAME/KEY: MISC FEATURE
) OTHER INFORMATION: Figure 15, p22-3.
US-10-354-240-165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 166, Application US/10354240; Publication No. US20030185847A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                          ; Sequence 174, Application US/10354240; Publication No. US20030185847A1; GENERAL INFORMATION:
                                                                         TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   37.8%;
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 165
LENGTH: 13
                                                                                                                                                                                                             Query Match 37.8%;
Best Local Similarity 53.8%;
Matches 7; Conservative
                                                                                                                                                                                                                                                                                         8 LFMRTVSHVILHG 20
                                                                                                                                                                                                                                                                                                                 :|::||:||
1 VFIKRVSNVIIHG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 LFMRTVSHVILHG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   :|::||:||:||
1 VFIKRVSNVIIHG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 53.8
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                           US-10-354-240-174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-354-240-166
                                                                                                                   FEATURE:
                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinozi
APPLICANT: Wame, Akinozi
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwana, Akiko
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ;
0
                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                     ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                               Score 42; DB 14; Length 12;
Pred. No. 16;
4; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         37.8%; Score 42; DB 14; Length 13; larity 53.8%; Pred. No. 18; Conservative 5; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 2003-01-29
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
PRIOR PELICATION NUMBER: US 09/142,524
PRIOR FILING DATE: 1998-09-09
                                                                                                                                 ) NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-9.
US-10-354-240-171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-354-240-165
Sequence 165, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                         S-10-354-240-13
Sequence 13, Application US/10354240
Publication No. US20030185847A1
GENERAL INFORMATION:
                                                                         TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 , ORGANISM: Cryptomeria japonica
US-10-354-240-13
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 171
LENGTH: 12
                                                                                                                                                                                                             Query Match 37.8%;
Best Local Similarity 58.3%;
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             :|:: ||:||:||
1 VFIKRVSNVIIHG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8 LFMRTVSHVILHG 20
                                                                                                                                                                                                                                                                                                                 1 PCVFIKRVSNVI 12
                                                                                                                                                                                                                                                                                           6 PCLFMRTVSHVI 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 7; Conserv
                                                                                                                   FEATURE:
                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
```

ö

Gaps ;

1; Indels

Mismatches

```
Score 36; DB 18; Length 18;
Pred. No. 2e+02;
CURRENT FILING DATE: 2004-09-15
PRIOR APPLICATION NUMBER: PCT/US03/08060
PRIOR FILING DATE: 2003-03-17
PRIOR PLING DATE: 2002-03-15
PRIOR FILING DATE: 2002-03-15
NUMBER OF SEQ ID NOS: 39
SOFTWARE: Patentin version 3.2
LENGTH: 18
                                                                                                                                                                                                                   ORGANISM: Artificial Sequence FEATURE:
OTHER INFORMATION: synthetic sequence US-10-507-734-37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Search completed: June 20, 2005, 15:55:11
Job time : 53.45 secs
                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 71.4%;
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                             12 LGGGGPC 18
                                                                                                                                                                                                                                                                                                                                                                                                                       δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Imama, Akiko
APPLICANT: Imama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: VINBER: US/10/354,240
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 2003-01-29
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09-09
NUMBER: OF SEQ ID NOS: 174
SOFTWARE: PatentIn version 3.1
SEQ ID NO 172
LENGTH: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 37, Application US/10507734
Publication No. US20050124794A1
GENERAL INFORMATION
BY PAPLICANT: MOCRAE, Keith
APPLICANT: DONATE, Fernando
APPLICANT: DONATE, Fernando
APPLICANT: MAZAR, Andrew P.
APPLICANT: MAZAR, Andrew P.
FILE OF INVENTION: CELL SURPACE TROPOMYOSIN AS A TARGET OF ANGIOGENESIS INHIBITION
FILE REPERBNCE: 28932.atts
CURRENT APPLICATION NUMBER: US/10/507,734
                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ..
0
                                                                                                                                                                                                                                                                                                        36.9%; Score 41; DB 14; Length 12; 58.3%; Pred. No. 23; tive 4; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 14; Length 11;
60;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 38; DB 1
Pred. No. 60;
4; Mismatches
PRIOR FILING DATE: 1997-03-10
PRIOR APPLICATION NUMBER: US 09/142,524
PRIOR FILING DATE: 1998-09-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FRATURE:
NAME/KRY: MISC FEATURE
1 OTHER INFORMATION: Figure 15, p22-10.
US-10-354-240-172
                                                                                                                                                                                                                   NAME/KEY: MISC FEATURE

OTHER INFORMATION: Figure 15, p22-4. US-10-354-240-166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 172, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION:
                                                                                                                                                    TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Cryptomeria japonica
                                            PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: PATENTIN VERSION 3.1
SEQ ID NO 166
LENGTH: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     34.2%;
54.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Kume, Akinori
Dairiki, Kazuo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 54.5
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                              9 FMRTVSHVILHG 20
                                                                                                                                                                                                                                                                                                                                                                                                                    |:: ||:||:||
1 FIKRVSNVIIHG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6 PCLFMRTVSHV 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ||:|:: ||:|
PCVFIKRVSNV 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Sone, Toshio
                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
Matches 7; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-354-240-172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 15
US-10-507-734-37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
                                                                                                                                                                                               FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                  유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
```

```
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; Patent No. 6090386
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MA
USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Wal
STATE: MA
COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-467-023-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 36, Appl
Sequence 35, Appl
Sequence 159, Appl
Sequence 163, App
Sequence 163, App
Sequence 163, Appl
Sequence 170, Appl
Sequence 171, Appl
Sequence 171, Appl
Sequence 172, Appl
Sequence 174, Appl
Sequence 174, Appl
Sequence 166, Appl
Sequence 167, Appl
Sequence 177, Appl
                                                                                                                     June 20, 2005, 14:04:11; Search time 16.15 Seconds (without alignments) 92.445 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Issued Patents AA:*

(cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
(cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
(cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
(cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-467-023-36

US-09-142-524D-35

US-09-142-524D-159

US-09-142-524D-163

US-09-142-524D-163

US-09-142-524D-164

US-09-142-524D-170

US-09-142-524D-170

US-09-142-524D-171

US-09-142-524D-171

US-09-142-524D-173

US-09-128-344A-169

US-09-128-344A-169

US-09-128-344A-169

US-09-128-344A-189
                                                                                                                                                                                                                                                                                                                                                                                               Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                          513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                              protein search, using sw model
                                                                                                                                                                                                      US-09-202-464-13
111
1 IGNGGPCLFMRTVSHVILHG 20
                                                                                                                                                                                                                                                                                           BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                                          seq length: 0
seq length: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query
                                                                                                                                                                                                          ritle:
Perfect score:
                                                                                                                                                                                                                                                                                             Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score
                                                                              OM protein -
                                                                                                                                                                                                                                                                                                                                                                                                                                          Minimum DB
Maximum DB
                                                                                                                                                                                                                                                   Sequence:
                                                                                                                                                                                                                                                                                                                                                          Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Database
                                                                                                                       Run on:
```

```
28 32 28.8 18 3 US-09-128-344A-192 Sequence 192, App 29 31.5 28.4 19 4 US-09-149-476-512 Sequence 512, App 31 27.9 18 3 US-09-128-344A-75 Sequence 196, App 32 30 27.0 16 3 US-09-128-344A-61 Sequence 196, App 33 30 27.0 16 3 US-09-128-344A-63 Sequence 61, App 36 30 27.0 16 3 US-09-128-344A-63 Sequence 61, App 36 30 27.0 16 3 US-09-128-344A-63 Sequence 61, App 30 27.0 16 3 US-09-128-344A-111 Sequence 61, App 30 27.0 16 3 US-09-128-344A-111 Sequence 111, App 30 27.0 16 3 US-09-128-344A-111 Sequence 111, App 30 27.0 16 3 US-09-128-344A-186 Sequence 118, App 41 30 27.0 17 3 US-09-128-344A-18 Sequence 188, App 41 30 27.0 17 3 US-09-128-344A-18 Sequence 13, App 42 30 27.0 17 3 US-09-128-344A-13 Sequence 23, App 44 30 27.0 17 3 US-09-128-344A-3 Sequence 23, App 44 30 27.0 17 3 US-09-128-344A-9 Sequence 93, App 44 30 27.0 17 3 US-09-128-344A-9 Sequence 93, App 44 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 44 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 84 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 84 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 84 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 84 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 84 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 84 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 84 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 84 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 84 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 84 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 84 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 84 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 94 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 94 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 94 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 94 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 94 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 94 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 94 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 94 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 94 30 27.0 17 3 US-09-128-344A-9 Sequence 95, App 94 30 27.0 17 3 US-09-128-344A-9
```

ALIGNMENTS

```
US-08-467-023-36

US-08-467-023-36

Sequence 16, Application US/08467023

Patent No. 6090386

GENERAL INFORMATION:

APPLICANT: Garman, Richard D;
APPLICANT: Bond, Julian F;
APPLICANT: Bond, Julian F;
APPLICANT: Wou, Med. Chang,
APPLICANT: Waltan,
APPLICATION UNDERS: 261

CONTRY: Waltan
STATE: Med.
APPLICATION NUMBER: US/08/467,023

FILING DATE: Dune 6, 1995
CLASSIFICATION NUMBER: 08/350,225
FILING DATE: June 6, 1995
CLASSIFICATION NUMBER: 38, 972

RESTERAN: APPLICATION NUMBER: 38, 972

RESTERAN: APPLICATION NUMBER: 38, 972

RESTERAN: APPLICATION NUMBER: 38, 972

RESTERENCE OFFICE TOWNER: 1010

RESTORMATION FOR EED IN SECHICAL

RESTERANT: APPLICATION NUMBER: 38, 972

RESTERANT: APPLICATION NUMBER: 38, 973

RESTERANT: APPLICATION NUMBER: 38,
```

```
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinoxi
APPLICANT: Kume, Akinoxi
APPLICANT: Mama, Akinoxi
APPLICANT: Dairiki, Kazuo
APPLICANT: Lyama, Akiko
APPLICANT: Ivama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-142-524D-163

US-09-142-524D-163

Sequence 163, Application US/09142524D

PATENT No. 6719976

GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Nume, Akinori
APPLICANT: Iwama, Akinori
APPLICANT: Iwama, Akinori
APPLICANT: Iwama, Akino
APPLICANT: Iwo, Kohauke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 163
LENGTH: 15
                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                         ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 15;
                                                                                           Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1; Indels
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 22
                                                                                           Score 58; DB 4;
Pred. No. 0.018;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 58; DB 4;
Pred. No. 0.018;
5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                ; Sequence 159, Application US/09142524D
; Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; LOCATION: (1). (15)
; OTHER INFORMATION: Figure 7, Row b
US-09-142-524D-159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                        52.3%;
60.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     52.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6 PCLFMRTVSHVILHG 20
                                                                                                                                                                                                                                                        6 PCLFMRTVSHVILHG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 60.0
Matches 9; Conservative
                                                                                                                     Best Local Similarity 60.0
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                     US-09-142-524D-159
      ; US-09-142-524D-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 15
                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Mune, Akinori
APPLICANT: Mame, Akinori
APPLICANT: Iwama, Akinori
APPLICANT: Iwama, Akino
APPLI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Mame, Akinori
APPLICANT: Mame, Akiko
APPLICANT: Mame, Akiko
APPLICANT: Kino, Kohsuke
APPLICANT: Kino, Kohsuke
APPLICANT: Kino, Kohsuke
TITLE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1999-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                            .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ;
0
                                                       Query Match

77.5%; Score 86; DB 3; Length 20;
Best Local Similarity 70.0%; Pred. No. 1.3e-06;
Matches 14; Conservative 5; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 55.9%; Score 62; DB 4; Length 15; Best Local Similarity 66.7%; Pred. No. 0.0044; Matches 10; Conservative 4; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ): NAME/KEY: MISC_FEATURE

): LOCATION: (1)...(15)

): OTHER INFORMATION: Cryjl peptide, Figure 1, Row 21

US-09-142-524D-35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-142-524D-36; Sequence 36, Application US/09142524D; Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 35, Application US/09142524D Patent No. 6719976
                                                                                                                                                                                                                        1 IGNGGPCLFMRTVSHVILHG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS: 174
SOFWARE: Patentin version 3.1
SEQ ID NO 36
EBNOTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 IGNGGPCLFMRTVSH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 IGNGGPCVFIKRVSN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (1). (15)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                              RESULT 2
US-09-142-524D-35
US-08-467-023-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                  Gaps
                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Allergenic Proteins And Peptides From
Japanese Cedar Pollen
                                                                   Length 15;
                                                                                                                0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       46.8%; Score 52; DB 3; Length 20; 80.0%; Pred. No. 0.2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3: ImmuLogic Pharmaceutical Corporation, Inc. 610 Lincoln St
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION INDER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane B. Remillard
REGISTRATION NUMBER: 38,922
REFERENCE/DOCKET NUMBER: 38,922
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
THELECOMMUNICATION INFORMATION:
  OTHER INFORMATION: Cryjl peptide, Figure 1, Row 120
                                                                   Score 52; DB 4;
Pred. No. 0.15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. 0.2;
2; Mismatches
                                                                                                                2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                  Sequence 35, Application US/08467023
Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Dollock, Joanne, APPLICANT: Bond, Julian F.; APPLICANT: Garman, Richard D. APPLICANT: Gund, Mei-Chang; APPLICANT: Yeung, Siu-mei H.; APPLICANT: Yeung, Siu-mei H.; APPLICANT: Exley, Mark A.; APPLICANT: Exley, Mark A.; APPLICANT: Exley, Mark A.; APPLICANT: Powers, Steven P. TITLE OF INVENTION: Allergenic ITITLE OF INVENTION: Allergenic ITITLE OF INVENTION: Allergenic ICIDE OF INVENTION: Apparese Central Correspondence Address: 261
                                                                                                                                                                                                                                                                                                                                                                                     Griffeth, Irwin J.;
                                                               46.8%;
80.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE: (617) 227-7400 TELEPAX: (617) 227-5941 INFORMATION FOR SEQ ID NO: 35. SEQUENCE CHARACTERISTICS:
                                                 Query Match
Best Local Similarity 80.0
Section 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20 amino acida
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best' Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                            1 IGNGGPCLFM 10
                                                                                                                                                                                      11 IGNGGPCVFI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 IGNGGPCLFM 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02154
         ; US-09-142-524D-34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-467-023-35
                                                                                                                                                                                                 원
                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 34, Application US/09142524D

Sequence 34, Application US/09142524D

Patent No. 671976

GENERAL INFORMATION

APPLICANT: Sone, Toshio

APPLICANT: Nume, Akinori

APPLICANT: Name, Akinori

APPLICANT: Name, Akino

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION NUMBER: US/09/142,524D

CURRENT FILING DATE: 1998-09-09

PRIOR PILING DATE: 1997-03-10

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 34

LENTH: 15
                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Mame, Akinori
APPLICANT: Iwama, Akiko
APPLICANT: Kazuo
APPLICANT: Kazuo
APPLICANT: Kazuo
APPLICANT: Mumbare, U0/99/142,524D
CURRENT APPLICATION NUMBER: U0/99/142,524D
PRIOR PLING DATE: 1997-03-10
PRIOR FILING DATE: 1997-03-10
                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                  Gaps
                                                                                                                ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  46.8%; Score 52; DB 4; Length 14; 57.1%; Pred. No. 0.14; tive 5; Mismatches 1; Indels
                                                                 Score 58; DB 4; Length 15;
Pred. No. 0.018;
5; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                             Sequence 169, Application US/09142524D Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-7.
US-09-142-524D-169
; OTHER INFORMATION: Figure 15, p22-1.
US-09-142-524D-163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQ ID NOS: 174
SOFTWARE: PatentIn version 3.1
SEQ ID NO 169
                                                                 Query Match 52.3%;
Best Local Similarity 60.0%;
Matches 9; Conservative
                                                                                                                                                       6 PCLFMRTVSHVILHG 20
                                                                                                                                                                                   ||:|:| ||:|| || PCVFIKRVSNVIIHG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 PCVFIKRVSNVIIH 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6 PCLFMRTVSHVILH 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 57.1%
Best Local 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (1)...(15)
                                                                                                                                                                                                                                                                                        US-09-142-524D-169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-142-524D-34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
                                                                                                                                                          ઠે
                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
```

```
Sequence 11, Application US/09142524D

Sequence 11, Application US/09142524D

Sequence No. 6719976

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Mama, Akiko

APPLICANT: Iwama, Akiko

APPLICANT: Iwama, Akiko

APPLICANT: Iwama, Akiko

APPLICANT: Kino, Kohsuke

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

CURRENT APPLICATION NUMBER: US/09/142,524D

CURRENT APPLICATION NUMBER: US/09/142,524D

FILE REFERENCE: 1997-03-10

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 11.

LENGTH: 12

LENGTH: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Mame, Akinori
APPLICANT: Iwama, Akinori
APPLICANT: Iwama, Akinori
APPLICANT: Iwama, Akinori
APPLICANT: Iwama, Akino
APPLICANTON Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseau
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: DCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: PatentIn version 3.1
ENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 37.8%; Score 42; DB 4; Length 13; 53.8%; Pred. No. 4.3; tive 5; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 42; DB 4;
Pred. No. 3.9;
4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-142-524D-165;
Sequence 165, Application US/09142524D;
Patent No. 6719976;
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: MISC FEATURE

OTHER INFORMATION: Figure 15, p22-9.
US-09-142-524D-171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; Sequence 13, Application US/09142524D
; Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; ORGANISM: Cryptomeria japonica
US-09-142-524D-13
                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match

Best Local Similarity 58.3%;
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8 LFMRTVSHVILHG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           :|:: ||:||:||
1 VFIKRVSNVIIHG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6 PCLFMRTVSHVI 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ||:|:: ||:||
1 PCVFIKRVSNVI 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 12
US-09-142-524D-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR RILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 164
LENGTH: 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR PRICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 44; DB 4; Length 13;
Pred. No. 2.1;
5; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 45.9%; Score 51; DB 4; Length 14; Best Local Similarity 57.1%; Pred. No. 0.19; Matches 8; Conservative 5; Mismatches 1; Indels
RESULT 9
10.5-09-142-524D-164
5. Sequence 164, Application US/09142524D
7. Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 170, Application US/09142524D Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-8.
US-09-142-524D-170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
NAME/KEY: MISC FEATURE
COTHER INFORMATION: Figure 15, p22-2.
US-09-142-524D-164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 39.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID NOS: 174
SOFWARE: Patentin version 3.1
SEQ ID NO 170
LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
                                                                                        GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |:|:: ||:||:||
1 CVFIKRVSNVIIHG 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7 CLFMRTVSHVILHG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 PCLFMRTVSHVIL 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 PCVFIKRVSNVII 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 53.8
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 10
US-09-142-524D-170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
```

```
Search completed: June 20, 2005, 14:22:16
Job time : 16.15 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity 58.3
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9 FMRTVSHVILHG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |:: ||:||:||
1 FIKRVSNVIIHG 12
Kume, Akinori
                                                                                                                                                                                                                                                                                                                                                                                                  US-09-142-524D-166
                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                             APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FITLE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR PILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 165
LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Sone, Toshio
APPLICANT: Sone, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Bairiki, Kazuo
APPLICANT: Dairiki, Kazuo
APPLICANT: Usuama, Akiko
APPLICANT: Wama, Akiko
APPLICANT: Wama, Akiko
APPLICANT: Wino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: PCT/JP97/00740
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
FEAGUR ON 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 42; DB 4; Length 13; Pred. No. 4.3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              37.8%; Score 42; DB 4; Length 13; 53.8%; Pred. No. 4.3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 14
US-09-142-524D-174
; Sequence 174, Application US/09142524D
; Patent No. 6719976
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-142-524D-166

Sequence 166, Application US/09142524D

Patent No. 6719976

GENERAL INFORMATION:
APPLICANT: Sone, Toshio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figures 17 and 18.
US-09-142-524D-174
                                                                                                                                                                                                                                                                                                                                                                        ; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-3
US-09-142-524D-165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 13
TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 53.8%;
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8 LFMRTVSHVILHG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        : |:: ||:||:||
1 VFIKRVSNVIIHG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 LFMRTVSHVILHG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         :|:: ||:||:||
1 VFIKRVSNVIIHG 13
                 Kume, Akinori
Dairiki, Kazuo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
Sone, Toshio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 7; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
                                                                                                                                                                                                                                                                                                                                                         FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
```

```
APPLICANT: Name, Asiko
APPLICANT: Name, Asiko
APPLICANT: Iwama, Asiko
APPLICANT: Kino, Koheuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: 02/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 166
LENGTH: 12
TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         36.9%; Score 41; DB 4; Length 12; 58.3%; Pred. No. 5.6; tive 4; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: MISC FEATURE OTHER INFORMATION: Figure 15, p22-4.
```

```
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
```

OM protein - protein search, using sw model

June 20, 2005, 14:14:01; Search time 53.45 Seconds (without alignments) 143.678 Million cell updates/sec Run on:

US-09-202-464-14 108 1 RTVSHVILHGLNIHGCNTSV 20

Title: Perfect score: Sequence:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

1714042 seqs, 383979560 residues Searched:

332641 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 20

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

Published Applications AA:*

1: /cgn2 6/ptodata/2/pubpaa/USO7_PUBCOMB.pep:*
2: /cgn2 6/ptodata/2/pubpaa/USO6_NEW_PUB.pep:*
3: /cgn2 6/ptodata/2/pubpaa/USO6_NEW_PUB.pep:*
4: /cgn2 6/ptodata/2/pubpaa/USO6_PUBCOMB.pep:*
5: /cgn2 6/ptodata/2/pubpaa/USO7_NEW_PUB.pep:*
6: /cgn2 6/ptodata/2/pubpaa/USO7_NEW_PUB.pep:*
7: /cgn2 6/ptodata/2/pubpaa/USO8_NEW_PUB.pep:*
8: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
9: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
11: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
12: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
11: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
12: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
13: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
14: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
15: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
16: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
17: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
18: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
19: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
19: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
10: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
10: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
11: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
12: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
13: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
14: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
15: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
16: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
17: /cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Appl	Appl	Appl	App	App	App	Appl	App	App	App	36, Appl
_	38,	37,	39,	168,	167,	166,	13,	165,	174,	164	36,
Description	Seguence	Sequence				Sequence	Sequence	Sequence	Sequence		Sequence
	38	37	39	891	167	991	13	165	174	164	36
	-354-240-3	-354-240-3	US-10-354-240-39	-354-240-1	-354-240-	-354-240-	-354-240-3	-354-240-3	-354-240-	-354-240-1	-354-240-3
ΩI	US-10	US-10	US-10	US-10	US-10	US-10	US-10	US-10	US-10	US-10	US-10
90	14	14	14	14	14	14	14	14	14	14	14
% Query Match Length DB	15	15	15	10	11	12	13	13	13	14	15
A Query Match	57.4	45.4	35.2	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
Score	62	49	38	34	34	34	34	34	34	34	34
Result No.	-	7	e	4	S.	9	7	8	6	10	11

Sequence 159, App Sequence 163, App Sequence 9, Appli Sequence 46, Appl	4446	2,027	4,1,2,2,2	17 43 76, 11 76	76,	Sequence 117, App Sequence 3910, Ap Sequence 3911, Ap Sequence 25, Appl Sequence 25, Appl
US-10-354 US-10-354 US-10-801 US-10-449		4 US-10-125-869A-51 5 US-10-462-262-275 4 US-10-216-122-50 6 US-10-756-289-2 6 US-10-083-641A-12	US-10-349-543- US-09-791-524- US-09-791-524- US-10-062-831- US-10-062-599-	5	10-359-546-7 10-425-557-7 10-412-701-7 10-632-678-7	
115 115 118 118	00024			000000	,00000	12224
ይ ዜ ቢ ይ ቁ ቁ ሲ ርረ	32 29. 32 29. 32 29.	3 3 3 3 5	31 28. 31 28. 31 28. 31 28.	31 31 28.7 32 30 27.8 34 30 27.8 35 30 27.8	00000	30 27.8 30 27.8 30 27.8 30 27.8 30 27.8

ALIGNMENTS

```
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Tomaria Akinori
APPLICANT: Wama, Akinori
APPLICANT: Wama, Akiko
APPLICANT: Wama, Akiko
APPLICANT: Kino, Kohsuke
TILLEANT: Kino, Kohsuke
TILLEANT: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT APPLICATION NUMBER: US/10/354,240
FRIOR PILLING DATE: 1997-03-10
FRIOR APPLICATION NUMBER: US/10/40
FRIOR PILLING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 38
LENGTH: 15
TYPE: RRT
CHARLES PARTICATION OF ALCORDING
SEQ ID NO 38
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: MISC_PEATURE
CCATION: (1)...(15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 24
US-10-354-240-38
US-10-354-240-38
Sequence 38, Application US/10354240
Publication No. US20030185847A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
```

Gaps ö Query Match 57.4%; Score 62; DB 14; Length 15; Best Local Similarity 66.7%; Pred. No. 0.01; Matches 10; Conservative 5; Mismatches 0; Indels

ö

```
Sequence 166, Application US/10354240

Sequence 166, Application US/10354240

Sequence 166, Application No. US20030185847A1

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Name, Akinori

APPLICANT: Name NameR: NS/10/354,240

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR FILING DATE: 1999-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: PatentIn Version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 167, Application US/10354240

Sequence 167, Application US/10354240

Sequence 167, Application US/10354240

Sequence 167, Application US/10354240

SEMERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Iwama, Akiho
APPLICANT: Iwama, Akiho
APPLICANT: Iwama, Akiho
APPLICANT: STO, Kohenke
TILE REFERENCE: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354,240

CURRENT FILING DATE: 1203-01-29
PRIOR APPLICATION NUMBER: PCT/JP97/00740

PRIOR APPLICATION NUMBER: US/97-03-10

PRIOR FILING DATE: 1998-09

PRIOR FILING DATE: 1998-09

NUMBER OF SEC ID NOS: 174

CONTREMENT OF SEC ID NOS: 174
                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 10;
                   DB 14; Length 15; 52;
                                                                 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31.5%; Score 34; DB 14;
60.0%; Pred. No. 1.4e+02;
ative 3; Mismatches 1
                                                                    4; Mismatches
                   Score 38;
Pred. No. 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: MISC FEATURE OTHER INFORMATION: Figure 15, p22-6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Cryptomeria japonica
                   35.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: Patentin version 3.1
SEQ ID NO 167
LENGTH: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 60.0
6; Conservative
                 Query Match
Best Local Similarity 60.0
Matches 6; Conservative
                                                                                                                                           |:::||:||]
1 LHLYGCSTSV 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              : ||:||:||
1 KRVSNVIIHG 10
                                                                                                                11 LNIHGCNTSV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 RTVSHVILHG 10
                                                                                                                                                                                                                                                         US-10-354-240-168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-354-240-168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 168
                                                                                                                  à
                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 39, Application US/10354240

publication No. US20030185847A1

general No. US20030185847A1

APPLICANT: Rume, Akinori

APPLICANT: Nama, Akinori

APPLICANT: Iwama, Akino

APPLICANT: Iwama, Akino

APPLICANT: Iwama, Akino

CURRENT FILLO OF INVENTION Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

FILE FERENCE: SPO-103D1

CURRENT APPLICATION NUMBER: US/10/354,240

CURRENT FILLING DATE: 1997-03-10

PRIOR PLLING DATE: 1997-03-10

PRIOR PLLING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: Patentin Version 3.1
                                                                                                                                                                                                                                               APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Bairiki, Kazuo
APPLICANT: Dairiki, Kazuo
APPLICANT: Haman, Akiko
APPLICANT: Waman, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 45.4%; Score 49; DB 14; Length 15; Best Local Similarity 53.3%; Pred. No. 1; Matches 8; Conservative 6; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; LOCATION: (1). Total Deptide, Figure 1, Row 23 US-10-354-240-37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; NAME/KEY: MISC_FEATURE
; LOCATION: (1)...(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 25
US-10-354-240-39
                                                                                                                                                            Sequence 37, Application US/10354240; Publication No. US20030185847A1; GENERAL INFORMATION: APPLICANT: Sone, Toshio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Cryptomeria japonica
6 VILHGLNIHGCNTSV 20
                        1 VIIHGLHLYGCSTSV 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 RTVSHVILHGLNIHG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 : ||:||:||::|
1 KRVSNVIIHGLHLYG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: MISC FEATURE
                                                                                                                                        US-10-354-240-37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-354-240-39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 39
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ò
                                         d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
```

```
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Lauriki, Kazuo
APPLICANT: Mama, Akiko
APPLICANT: Mama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: 2003-01-29
FILE REPERBACE: 2003-01-29
FILE APPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 1939-03-10
PRIOR FILING DATE: 1939-03-09
PRIOR FILING DATE: 1939-03-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: PatentIn version 3.1
SEQ ID NOS: 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 174, Application US/10354240

Sequence 174, Application US/2030185847A1

Sequence 174, Application No. US20030185847A1

GENERAL INFORMATION:

APPLICANT: Sume, Akinori

APPLICANT: Inwam, Akiko

APPLICANT: Mino, Kohauke

ITTLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

ITTLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

ITTLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

ITTLE OF INVENTION NUMBER: US/10/354,240

CURRENT FILING DATE: 1997-03-10

PRIOR APPLICATION NUMBER: PCT/JP97/00740

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 174

LENGTH: 13
                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                        Query Match 31.5%; Score 34; DB 14; Length 13; Best Local Similarity 60.0%; Pred. No. 1.9e+02; Matches 6; Conservative 3; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31.5%; Score 34; DB 14; Length 13; 60.0%; Pred. No. 1.9e+02; tive 3; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
NAME/KEY: MISC_FEATURE
OTHER INFORMATION: Figure 15, p22-3.
                                                                                                                                                                                                                                                                                                                                                                                          Sequence 165, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 13
TYPE: PRT
ORGANISM: Cryptomeria japonica
     ; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 60.0
Matches 6; Conservative
                                                                                                                                                                                                              1 RTVSHVILHG 10
                                                                                                                                                                                                                                            : ||:||:||
4 KRVSNVIIHG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        : ||:||:||
4 KRVSNVIIHG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 RTVSHVILHG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Sone, Toshio
                                                                                                                                                                                                                                                                                                                                                                        US-10-354-240-165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-354-240-165
                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | GENERAL INFORMATION:
| APPLICANT: Sone, Toshio |
| APPLICANT: Kume, Akinori |
| APPLICANT: Kume, Akinori |
| APPLICANT: Kume, Akinori |
| APPLICANT: Kume, Kazuo |
| APPLICANT: Iwama, Akiko |
| APPLICANT: Iwama, Akiko |
| APPLICANT: Iwama, Akiko |
| APPLICANT: Kino, Kohauke |
| TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea |
| TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea |
| FILE REFERENCE: SPO-1031 |
| CURRENT FILING DATE: 2003-01-29 |
| PRIOR FILING DATE: 1997-03-10 |
| PRIOR FILING DATE: 1998-09-09 |
| PRIOR FILING DATE: 1998-09-09 |
| NUMBER OF SEQ ID NOS: 174 |
| SOFTHARE: Patentin version 3.1 |
| LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Wasua Akiko
APPLICANT: Wino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-10310
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 1997-001
PRIOR PELICATION NUMBER: US 09/142,524
PRIOR APPLICATION NUMBER: US 09/142,524
PRIOR PILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin Version 3.1
SEQ ID NOS: 174
                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31.5%; Score 34; DB 14; Length 12; 60.0%; Pred. No. 1.7e+02; tive 3; Mismatches 1; Indels
                                                                                                              Length 11;
                                                                                                        31.5%; Score 34; DB 14; Length 11
60.0%; Pred. No. 1.6e+02;
tive 3; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
NAME/KEY: MISC_FEATURE
OTHER INFORMATION: Figure 15, p22-4.
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-5.
US-10-354-240-167
                                                                                                                                                                                                                                                                                                                                                                                          Sequence 166, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-354-240-13
; Sequence 13, Application US/10354240
; Publication No. US20030185847A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                   Query Match
Best Local Similarity 60.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6; Conservative
                                                                                                                                                                                                              1 RTVSHVILHG 10
                                                                                                                                                                                                                                         : ||:||:||
2 KRVSNVIIHG 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 RTVSHVILHG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        : ||:||:||
3 KRVSNVIIHG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                     .10-354-240-166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-354-240-166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
```

```
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea FILE REFERENCE: SPO-103D1
CURRENT APPLICATION WUMBER: US/10/354,240
CURRENT FILING DATE: 2003-01-29
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 159
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 163, Application US/10354240

Publication No. US20030185847A1

GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Iwama, Akinori
APPLICANT: Iwama, Akino
APPLICANT: Construction of the constru
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .
0
                                                                                                                                                                                                                                                                                                                                                           Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 34; DB 14; Length 15;
Pred. No. 2.2e+02;
3; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                           1; Indels
                                                                                                                                                                               ; NAME/KEY: MISC_FEATURE
; LOCATION: (1)...(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 22
US-10-354-240-36
                                                                                                                                                                                                                                                                                                                                                           Query Match 31.5%; Score 34; DB 14; Best Local Similarity 60.0%; Pred. No. 2.2e+02; Matches 6; Conservative 3; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 159, Application US/10154240; Publication No. US20030185847A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCATION: (1). (15)
OTHER INFORMATION: Figure 7, Row b
                                                                                           TYPE: PRT
ORGANISM: Cryptomeria japonica
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31.5%;
60.0%;
SOFTWARE: Patentin version 3.1
SEQ ID NO 36
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 60.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Iwama, Akiko APPLICANT: Kino, Kohsuke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 RTVSHVILHG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             : ||:||:||
6 KRVSNVIIHG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             : ||:||:||
6 KRVSNVIIHG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 RTVSHVILHG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 13
US-10-354-240-163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-354-240-159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Sone, Toshio

APPLICANT: Sone, Toshio

APPLICANT: Wame, Akinori

APPLICANT: Wame, Akinori

APPLICANT: Wame, Akiko

APPLICANT: Wame, Akiko

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

FILE REFERENCE: SPO-103D1

CURRENT APPLICATION NUMBER: US/10/354,240

CURRENT PILING DATE: 1997-003-10

PRIOR APPLICATION NUMBER: US/03-10

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: PatentIn version 3.1

SEQ ID NO 164

LENGTH: 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 36, Application US/10354240

Publication No. US20030185847A1

GENERAL INFORMATION

APPLICANT: Sone, Toshio

APPLICANT: Kume, Akinori

APPLICANT: Nama, Akinori

APPLICANT: Iwama, Akino

APPLICANT: Iwama, Akino

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Poptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Poptide-Based Immunotherapeutic Agent for Treating Allergic Disea

CURRENT APPLICATION NUMBER: US/10/354,240

CURRENT FILING DATE: 1997-03-10

PRIOR FILING DATE: 1997-03-10

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                  ô
                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                  ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                              Score 34; DB 14; Length 13; Pred. No. 1.9e+02; 3; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            31.5%; Score 34; DB 14; Length 14; 60.0%; Pred. No. 2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3; Mismatches
                                                                FEATURE:
NAME/REY: MISC FEATURE
COTHER INFORMATION: Figures 17 and 18.
US-10-354-240-174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 164, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ) NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-2.
US-10-354-240-164
TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                              Query Match
Best Local Similarity 60.0%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity 60.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                    : ||:||:||
4 KRVSNVIIHG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 RTVSHVILHG 10
                                                                                                                                                                                                                                                                                                                                                              1 RTVSHVILHG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  : ||:||:||
5 KRVSNVIIHG 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-354-240-164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-354-240-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
```

```
APPLICANT: Cognosci, Inc.
APPLICANT: Moss, Marcia Lynn
APPLICANT: Rasmussen, Fred H.
APPLICANT: Rasmussen, Fred H.
APPLICANT: Vitek, Michael P.
TITLE OF INVENTION: Assays for measuring matrix metalloproteinase activities FILE REFERENCE: 56816-5001-08
CURRENT APPLICATION NUMBER: US/10/449,659
CURRENT FILING DATE: 2003-06-02
PRIOR FILING DATE: 2001-05-31
NUMBER OF SEQ ID NOS: 77
                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                        ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                         Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         30.6%; Score 33; DB 17; Length 18
35.7%; Pred. No. 3.8e+02;
tive 3; Mismatches 6; Indels
                                                                                                                                                                                                                                                                      1; Indels
                                                                                                                                                                                                                                      31.5%; Score 34; DB 14;
60.0%; Pred. No. 2.2e+02;
trive 3; Mismatches 1;
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
PRIOR PPLICATION NUMBER: US 09/142,524
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
LENGTH: 15
                                                                                                                                                                       ; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-1.
US-10-354-240-163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 46, Application US/10449659; Publication No. US20030229005A1; GENERAL INFORMATION:
                                                                                                                          TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3 VSHVILHGLNIHGC 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |:| : || : |
1 VAHALAEGLGVIAC 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 35.7
Matches 5, Conservative
                                                                                                                                                                                                                                      Query Match
Best Local Similarity 60.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                 1 RTVSHVILHG 10
                                                                                                                                                                                                                                                                                                                     : [|:||:||
6 KRVSNVIIHG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 15
US-10-449-659-46
                                                                                                                                                                                                                                                                                                                                                                                               US-10-801-988-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-801-988-9
                                                                                                                                                             FEATURE
                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
```

```
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 46
; LENGTH: B
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: metalloproteinase substrate
US-10-449-659-46

Query Match
Best Local Similarity 66.7%; Pred. No. 1.66+06;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 11 ININGC 16
Db 3 VNLHGC 8

Search completed: June 20, 2005, 15:55:12
Job time: 54.45 secs
```

THIS PAGE BLANK (USPTO)

```
Tue Jun 21 05:54:40 2005
```

```
US-08-467-023-37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 337, Appl
37, Appl
37, Appl
39, Appl
12, Appl
12, Appl
12, Appl
16, Appl
167, App
167, App
167, Appl
167, Appl
166, 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                  June 20, 2005, 14:04:11; Search time 16.15 Seconds (without alignments) 92.445 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1
Sequence 1
Sequence 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1
Sequence 1
Sequence 1
Sequence 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /cgn2 6/ptodata/1/iaa/5A_COMB.pep:*
/cgn2 6/ptodata/1/iaa/5B_COMB.pep:*
/cgn2 6/ptodata/1/iaa/6A_COMB.pep:*
/cgn2 6/ptodata/1/iaa/6B_COMB.pep:*
/cgn2 6/ptodata/1/iaa/PCTUS_COMB.pep:*
/cgn2 6/ptodata/1/iaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-142-524D-38
US-09-142-524D-37
US-09-142-524D-37
US-08-142-524D-15
US-08-459-850-12
US-08-459-214-12
US-08-142-524D-168
US-09-142-524D-167
US-09-142-524D-167
US-09-142-524D-167
US-09-142-524D-174
US-09-142-524D-174
US-09-142-524D-165
US-09-142-524D-169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -08-142-590B-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -08-142-590B-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-285-783-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                             OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                              US-09-202-464-14
108
1 RTVSHVILHGLNIHGCNTSV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Issued_Patents_AA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query
Match Length
                           Copyright
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                                 Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Database:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Searched:
                                                                                                                                                                                                                                                                                                                                                                                                       Sequence:
                                                                                                                                                                                                Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Result
No.
```

, App Appl	Appl	Appl	Appl	Appl	Appl	Appl	Appl	Appl	Appl	App,	Appl	Appl	Appl	Appl
123,	76,	55,	76,	76,	55,	47,	47,	47,	27,	801	12,	46,	15,	15,
Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Seguence	Sequence	Seguence	Sequence
US-09-690-454-123 US-08-142-590B-23	US-09-250-059-76	US-09-357-717-55	US-09-458-870-76	US-09-248-UIS-70 US-09-544-782-76	US-10-058-821-55	US-08-484-905-47	US-08-481-985B-47	US-08-370-476-47	US-08-992-877-27	US-08-488-551B-801	US-08-451-472-12	US-08-451-472-46	US-09-188-579-15	US-09-315-444-15
4 W	ო ი	J 44	4.4	4	4	~	ო	m	٣	m	Н	Н	m	m
19	0,0	n on	on 0	n ov	σ	15	15	15	15	17	19	19	12	12
	۰. م	. 60	ص د	0 00	۵.	89	89.	80.	89.	æ	80	۵.	o.	ο.
28.7	27	27	27.8	27.8	27	27.8	27.8	27.8	27	27.8	27	27.8	56	56
31	30	9 0	30	300	30	30	30	30	30	30	30	30	53	29
28 29	30	32	33	35	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

```
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Griffeth, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang ;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Allergenic Proteins and Peptides From TITLE OF INVENTION: 261
CORRESPONDENCE ADDRESS: ADDRESS: ADDRESSE: Immulogic Pharmaceutical Corporation, Inc. STREET: 610 Lincoln St.
CITY: Waltham
STATE: MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 02154

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT PPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-7400
TELEFAX: (617) 227-7401
TELECOMMUNICATION INFORMATION:
TELEFAX: (617) 227-7401
TELECOMMUNICATION INFORMATION:
TELEFAX: (617) 227-7401
TELEFAX: (217) 227-7401
Sequence 37, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          USA
```

```
APPLICANT: Dairiki, Kazuo
APPLICANT: Ivama, Akiko
APPLICANT: Irama, Akiko
APPLICANT: Irama, Akiko
APPLICANT: Irama, Akiko
APPLICANT: Trino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
FURRENT PILING UNMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 39
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Anthony J. Mason
APPLICANT: Anthony J. Mason
APPLICANT: Anthony J. Mason
APPLICANT: Peter H. Seeburg
TITLE OF INVENTION: Nucleic Acid Encoding the Alpha or Beta Chains of Inhibin and
NUMBER OF SEQUENCES: 44
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                             ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 15;
                                                                                                 Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; LOCATION: (1)...(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 25
(MS-09-142-254D-19
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 23
                                                                                              DB 4;
0.26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4 ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:

MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk COMPUTER: 1 EMP PC compatible COMPUTER: 1 EMP PC compatible COMPUTER: 5.25 inch, 360 Kb floppy disk COMPUTER: 0.25 kb 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 38; DB 4
Pred. No. 13;
4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB . 13;
                                                                                                                                                                    Mismatches
                                                                                                 Score 49;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                             ; Sequence 39, Application US/09142524D
; Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 5
US-08-197-792-12
; Sequence 12, Application US/08197792
; Patent No. 5525488
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                              45.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        35.2%;
                                                                                                                                                                                                                          1 RTVSHVILHGLNIHG 15
                                                                                                                                                                                                                                                                  : ||:||:||:||
1 KRVSNVIIHGLHLYG 15
                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 60.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |:::||:|||
1 LHLYGCSTSV 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11 LNIHGCNTSV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: MISC_FEATURE
                                                                                                                            Best Local Similarity
Matches 8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Patent No. 6719976
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZIP: 94080
                                                                                                                                                                                                                                                                                                                                                                                        RESULT 4
US-09-142-524D-39
          ; OTHER INFORMA
US-09-142-524D-37
                                                                                                 Query Match
                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                      요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 37, Application US/09142524D

Sequence 37, Application US/09142524D

Patent No. 6719976

GENERAL INPORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kune, Akinori
APPLICANT: Iwama, Akiko
CURRENT: FILE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
CURRENT FILING DATE: 1998-09-09
CURRENT FILING DATE: 1997-03-10

PRIOR FILING DATE: 1997-03-10

NUMBER OF SEQ ID NOS: 174

SOFTWARE: PatentIn version 3.1

SEQ ID NO 37

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Kume, Akinori

APPLICANT: Kume, Akinori

APPLICANT: Kume, Akinori

APPLICANT: INAMA, Kazuo

APPLICANT: INAMA, Akiko

APPLICANT: Kino, Kohsuke

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

CURRENT APPLICATION NUMBER: US/09/142,524D

CURRENT PILING DATE: 1998-09-09

PRIOR PAPLICATION NUMBER: PET/JP97/00740

PRIOR FILING DATE: 1997-03-10

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 38

LENGTH: 15
                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                               .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 57.4%; Score 62; DB 4; Length 15; Best Local Similarity 66.7%; Pred. No. 0.0024; Matches 10; Conservative 5; Mismatches 0; Indels
                                                         63.9%; Score 69; DB 3; Length 20; 60.0%; Pred. No. 0.00028;
                                                                                                                        2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (1)...(15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 24
US-09-142-524D-38
                                                                                                                               6; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 38, Application US/09142524D Patent No. 6719976
                                                                                                                                                                                            1 RTVSHVILHGLNIHGCNTSV 20
                                                                                                                                                                                                                                 : ||:||:||| ::||:|||
1 KRVSNVIIHGLYLYGCSTSV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6 VILHGLNIHGCNTSV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 VIIHGLHLYGCSTSV 15
                                                         Query Match
Best Local Similarity 60.0°
Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (1). (15)
                                                                                                                                                                                                                                                                                                                                                                                           US-09-142-524D-38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-142-524D-37
US-08-467-023-37
                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
```

```
APPLICANT: Anthony J. Mason
APPLICANT: Peter H. Seeburg
TITLE OF INVENTION: Nucleic Acid Encoding the Alpha or
TITLE OF INVENTION: Beta Chains of Inhibin and Method for Synthesizing Polypeptide
TITLE OF INVENTION: Using such Nucleic Acid
NUMBER OF SEQUENCES: 44
NUMBER OF SEQUENCES: ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 35, DB 1; Length 18;
Pred. No. 48;
5; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZUMATIER READABLE FORM:

COMPUTER READABLE FORM:

MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Partin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/459,214

FILING DATE: 02-UNM-1995

CLASSIFTCATION DATA:

APPLICATION NUMBER: 08/197792

FILING DATE: 17-FEB-1994

PRIOR APPLICATION DATA:
   PRIOR APPLICATION DATA:

APPLICATION NUMBER:
PILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
PLING DATE:
12-A0G-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
PLING DATE:
APPLICATION DATA:
APPLICATION NUMBER:
PLING DATE:
APPLICATION NUMBER:
PLING DATE:
APPLICATION NUMBER:
ATTORNEY AGENT:
AT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 12, Application US/08459214; Patent No. 5716810; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 12: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 33.3%;
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3 AHILLHAVRVSG 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4 SHVILHGLNIHG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-459-850-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JS-08-459-214-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 12, Application US/08459850
Sequence 12, Application US/08459850
Patent No. 5665568
GENERAL INFORMATION:
APPLICANT: Peter H. Seeburg
TITLE OF INVENTION: Nucleic Acid Encoding the Alpha or
TITLE OF INVENTION: Using such Nucleic Acid
NUMBER OF SEQUENCES: 44
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     32.4%; Score 35; DB 1; Length 18; 33.3%; Pred. No. 48; 3; Indels tive 5; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:

MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk COMPUTER: IEM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: patin (Genentech) CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/459,850 FILING DATE: 02-JUN-1995 CLASSIFICATION: 435 PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/197792 FILING DATE: 17-FEB-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: 07/958414
FILING DATE: 08-0CT-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/744207
FILING DATE: 12-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/215466
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 06/906729
FILING DATE: 05-JUL-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 06/806729
FILING DATE: 07-FEB-1986
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 06/783910
FILING DATE: 03-OCT-1985
ATTONNEY/AGENT INFORMATION:
NAME: HABSH, JANET E
REGISTRATION NUMBER: 28,616
REGISTRATION NUMBER: 28,616
REGISTRATION NUMBER: 28,616
REGISTRATION NUMBER: 29792D4
TELECOMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 18 amino acids
TYPE: amino acid
TYPE: TYPE: US-08-197-792-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 33.3
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4 SHVILHGLNIHG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               :|::|| : : |
3 AHILLHAVRVSG 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-459-850-12
```

ò 셤

```
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 31.5
Best Local Similarity 60.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    : ||:||:||
KRVSNVIIHG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11 LNIHGCNTSV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 LYLYGCSTSV 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 RIVSHVILHG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                      amino acid
XGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 9
US-09-142-524D-168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 10
US-09-142-524D-167
                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: ami
TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-467-023-38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: darman, Nichard D;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.;
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immulogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    32.4%; Score 35; DB 1; Length 18; 33.3%; Pred. No. 48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5; Mismatches
                FILING DATE:

PRIOR APPLICATION DATA:

PRIOR APPLICATION DATA:

FILING DATE:

12-AUG-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

FILING DATE:

FILING DATE:

FILING DATE:

APPLICATION NUMBER:

APPLICATION NUMBER:

APPLICATION NUMBER:

FILING DATE:

APPLICATION NUMBER:

APPLICATION NUMBER:

APPLICATION NUMBER:

APPLICATION NUMBER:

FILING DATE:

APPLICATION NUMBER:

APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 38, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICATION NUMBER: 07/90 FILING DATE: 08-0CT-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4 SHVILHGLNIHG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3 AHILLHAVRVSG 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ropology:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-459-214-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-467-023-38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
```

```
Sequence 168, Application US/09142524D

Sequence 168, Application US/09142524D

Patent No. 6719976

Batent No. 6719976

APPLICANT: Sone, Toshio

APPLICANT: Sone, Toshio

APPLICANT: Wama, Akinori

APPLICANT: Wama, Akinori

APPLICANT: Wama, Akiko

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dises

FILE REFERENCE: SPO-103

CURRENT APPLICATION NUMBER: US/09/142,524D

FILE REFERENCE: SPO-103

CURRENT APPLICATION NUMBER: PCT/JP97/00740

PRIOR APPLICATION NUMBER: PCT/JP97/00740

PRIOR FILING DATE: 1997-03.10

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 168

LENGTH: 10

LENGTH: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31.5%; Score 34; DB 4; Length 10; 60.0%; Pred. No. 35; tive 3; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 32.4%; Score 35; DB 3; Length 20; Best Local Similarity 60.0%; Pred. No. 54; Matches 6; Conservative 3; Mismatches 1; Indels
                                                                                                                               025.6 USD2 (IMI-028CPD2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; Sequence 167, Application US/09142524D
; Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ) NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-6.
US-09-142-524D-168
             FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 I
TELECOMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
INFORMATION FOR SEQ ID NO: 38:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 aming acids
08/350,225
```

```
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO.13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Sone, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Imama, Akinori
APPLICANT: Imama, Akiko
APPLICANT: Imama, Akiko
APPLICANT: Indiv
APPLICANT: Sino, Kohauke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TILE REFERENCE: SPO-103
CURRENT PELLING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: PCT/JP97/00740
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NOS: 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Dairiki, Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Koheuke
TITLE OF TWENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indela
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 34; DB 4;
Pred. No. 47;
3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 34; DB 4;
Pred. No. 47;
3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-142-524D-165
Sequence 165, Application US/09142524D
Patent No. 6719976
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 174, Application US/09142524D Patent No. 6719976 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: MISC FEATURE
OTHER INFORMATION: Figure 15, p22-3.
                                                                                                                                                                                                                                                                                                                                                                                                                        ; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-09-142-524D-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31.5%;
60.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 60.0°
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JENERAL INFORMATION
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 31.5
Best Local Similarity 60.0
Matches 6; Conservative
                                                                                                                                      Kino, Kohsuke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 RTVSHVILHG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       : ||:||:||
4 KRVSNVIIHG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 RTVSHVILHG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       : ||:||:||
4 KRVSNVIIHG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-142-524D-165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-142-524D-174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseating File OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseating FILE REPERENCE: SPO-103; CURRENT APPLICATION NUMBER: US/09/142,524D; CURRENT FILING DATE: 1998-09-09; PRIOR APPLICATION NUMBER: PCT/JP97/00740; NUMBER OF SEQ ID NOS: 174; SOFTWARE: Patentin version 3.1 SEQ ID NO 167
LEMDIN 11
TYPE. PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE. PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE. PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE. PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE. PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE. PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE. PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE. PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE. PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE. PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE. PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE. PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE. PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE. PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTED TO 100 167
LEMDIN 11
TYPE PROPERTY OF TRANSPORTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 34; DB 4; Length 11;
Pred. No. 39;
3; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 4; Length 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         31.5%; Score 34; DB 60.0%; Pred. No. 43; tive 3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-4.
US-09-142-524D-166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: MISC FEATURE

OTHER INFORMATION: Figure 15, p22-5.
US-09-142-524D-167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 13, Application US/09142524D Patent No. 6719976 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            31.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 60.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 60.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Iwama, Akiko
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 RTVSHVILHG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             : ||:||:||
2 KRVSNVIIHG 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 RTVSHVILHG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3 KRVSNVIIHG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-142-524D-166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-142-524D-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
```

```
RESULT 15
US-09-142-524D-164
i Sequence 164, Application US/09142524D
i Sequence 164, Application US/09142524D
i Sequence 164, Application US/09142524D
i GENERAL INFORMATION:
i APPLICANT: Some, Toshio
i APPLICANT: Name, Akinori
i APPLICANT: Iwame, Akinori
i APPLICANT: Iwame, Akino
i APPLICANT: Iwame, Akino
i APPLICANT: Iwame, Akino
i APPLICANT: Spo-103
i TITLE OF INVENTION Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
i TITLE OF INVENTION NUMBER: US/09/142,524D
i CURRENT FILING DATE: 1998-09-09
i PRIOR FILING DATE: 1997-03-10
i NUMBER OF SEQ ID NOS: 174
i SEQ ID NO 164
i SEQ ID NO 164
i MANDEL OF TOWN IN ORDER IN OFFICE IN ORDER IN 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
31.5%; Score 34; DB 4; Length 13;
Best Local Similarity 60.0%; Pred. No. 47;
Matches 6; Conservative 3; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 60.0%; Pred. No. 51;
Matches 6; Conservative 3; Mismatches 1; Indels
CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 174
LENGTH: 13
TYPE: PRT
ORGANISM: Cryptomeria japonica
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Search completed: June 20, 2005, 14:22:17
Job time : 17.15 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: MISC FEATURE
) OTHER INFORMATION: Figures 17 and 18.
US-09-142-524D-174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURE:
NAME/KEY: MISC_FEATURE
THER INFORMATION: Figure 15, p22-2.
US-09-142-524D-164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 RTVSHVILHG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           : ||:||:||
4 KRVSNVIIHG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 RTVSHVILHG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       : ||:||:||
5 KRVSNVIIHG 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
```

us-09-202-464-16.rapb

Н

```
(without alignments)
143.678 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1. cgn2_6/ptodata/2/pubpaa/USO7 PUBCOMB.pep:*
2. cgn2_6/ptodata/2/pubpaa/USO7 NEW PUB.pep:*
3. cgn2_6/ptodata/2/pubpaa/USO6 NEW PUB.pep:*
4. cgn2_6/ptodata/2/pubpaa/USO6 PUBCOMB.pep:*
5. cgn2_6/ptodata/2/pubpaa/USO6 PUBCOMB.pep:*
6. cgn2_6/ptodata/2/pubpaa/USO8_NEW PUB.pep:*
7. cgn2_6/ptodata/2/pubpaa/USO8_NEW PUB.pep:*
8. cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
9. cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
10. cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
11. cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
12. cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
13. cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
15. cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
15. cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
16. cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
16. cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
17. cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
18. cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
19. cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
                                                                                                                                                                                                                                  June 20, 2005, 14:14:01 ; Search time 53.45 Seconds
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1714042 segs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Published Applications AA:
                                                                                                                                                    OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                      US-09-202-464-16
99
1 SGNVLISEASGVVPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                                                                                          Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Seguence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Database
                                                                                                                                                                                                                                  Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Sequence 51, Appl Sequence 51, Appl Sequence 51, Appl Sequence 91, Appl Sequence 91, Appl Sequence 42, Appl Sequence 41, Appl Sequence 43, Appl Sequence 33, Sequence 25, Sequence 33, Description 4 US-10-354-240-42 4 US-10-354-240-41 4 US-10-354-240-43 US-09-813-33-51 3 US-10-044-703-51 5 US-10-239-103-51 7 US-10-836-825A-9 8 US-10-836-825A-9 8 US-10-836-825A-9 8 US-10-836-83 Query Match Length DB Score Result No.

w .	88, 441, 49,	Sequence 55, Appl Sequence 57, Appl Sequence 41, Appl Sequence 41, Appl Sequence 47, Appl Sequence 47, Appl	83, 63, 125,	46644666
16 US-10-861-614-25 17 US-10-808-187-1608 8 US-08-424-550B-366 16 US-10-776-013-316 10 US-09-747-802-49 10 US-09-747-802-55	US-09-747-802-5 US-09-865-294-3 US-09-865-294-4 US-09-865-294-4 US-09-865-294-4 US-09-865-294-4	16 US-10-789-619-55 16 US-10-789-619-57 16 US-10-861-614-38 16 US-10-861-614-41 16 US-10-861-614-49 15 US-10-468-543-13	US-10-256-850 US-10-681-381 US-09-563-222 US-10-783-950 US-10-783-950 US-10-362-776	10-482-284 09-747-802 09-747-802 09-747-802 09-747-802 09-865-294 09-865-294
				20 115 115 115 115
W W W W W W			31.33.33.33.33.33.33.33.33.33.33.33.33.3	31 300.55 300.55 300.55 300.55 300.55 300.55 300.55 300.55 300.55 300.55 300.55 300.55
12 13 15 16	22 22 23 23 23 23	4 G G G G G G 4 R B C B		338 398 447 444 45 45 45

ALIGNMENTS

JS-10-354-240-42

```
APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Sone, Akinori
APPLICANT: Wama, Akinori
APPLICANT: Wama, Akiko
APPLICANT: Wama, Akiko
APPLICANT: Wama, Akiko
APPLICANT: Kino, Kohsuke
ITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103D1
CURRENT PELLING DATE: 2003-01-29
PRIOR APPLICATION NUMBER: US/10/354,240
PRIOR PILING DATE: 1997-03-10
PRIOR PILING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 42
LENGTH: 15
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           52.5%; Score 52; DB 14; Length 15; 66.7%; Pred. No. 0.12; tive 2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ) NAME/KEY: MISC_FEATURE

) LOCATION: (1)...(15)

) OTHER INFORMATION: Cryjl peptide, Figure 1, Row 28

US-10-354-240-42
Sequence 42, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 52.5
Best Local Similarity 66.7
Matches 10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE
```

ö

Gaps

;

```
RESULT 5
US-10-044-703-51
Sequence 51, Application US/10044703
; Publication Wo. US20020192233A1
; GENERAL INFORMATION:
    APPLICANT: DeGroot, Anne S
    TITLE OF INVENTION: Human T Cell Response to MHC-Binding Motif Clusters
; FILE REFERENCE: 17999-004 US
; CURRENT APPLICATION NUMBER: US/10/044,703
; CURRENT FILING DATE: 2002-05-20
; RRIOR PILING DATE: 2000-03-20
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 51
: LENGTH: 20
                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ô
                                                                                                                                                                                                                                                          Sequence 51, Application US/0981333

Patent No. US20020119160A1

GENERAL INFORMATION:
GENERAL INFORMATION:
HUMAN TO SET TITLE OF INFORMATION:
HUMAN TO SET TITLE OF INFORMATION:
FILE REFERENCE: 17999-004 US
CURRENT FILING DATE: 2001-03-20
PRIOR APPLICATION NUMBER: 60/190,834
PRIOR FILING DATE: 2000-03-20
NUMBER OF SEQ ID NOS: 81
SOFTWARE: Patentin Ver. 2.1
SEQ ID NOS: 81
                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                  ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                36.4%; Score 36; DB 13; Length 20; 54.5%; Pred. No. 79; tive 2; Mismatches 3; Indel8
                     DB 14; Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          36.4%; Score 36; DB 9; Length 20; 54.5%; Pred. No. 79; 3; Indels iive 2; Mismatches 3; Indels
                                                                  2; Indels
                                                                  0; Mismatches
                       Score 43;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; ORGANISM: Mycobacterium tuberculosis US-09-813-333-51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; Sequence 51, Application US/10239103; Publication No. US20040057961A1; GENERAL INFORMATION:
                       43.4%;
                   Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10 SGVVPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  : |||:| ||
10 TAVVPLHRSDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10 SGVVPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          : |||:|
10 TAVVPLHRSDG 20
                                                                                                                20
                                                                                                                                          1 GVEPVHPQDG 10
                                                                                                                11 GVVPVHAQDG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-239-103-51
                                                                                                                                                                                                                                                      US-09-813-333-51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 6
                                                                                                                  ઠે
                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ద
                                                                                                                                                                                                                       APPLICANT: Sone, Toshio

APPLICANT: Kume, Akinori

APPLICANT: Kume, Akinori

APPLICANT: Kume, Akinori

APPLICANT: Iwama, Akiko

CURRENT: Iwama, Akiko

CURRENT APPLICATION NUMBER: US/10/354,240

CURRENT APPLICATION NUMBER: PCT/JP97/00740

PRIOR FILING DATE: 1997-03-10

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: Patentin version 3.1

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Sone, Toshio

APPLICANT: Kume, Akinori

APPLICANT: Kume, Akinori

APPLICANT: Mama, Akinori

APPLICANT: Iwama, Akiko

APPLICANT: Iwama, Akiko

APPLICANT: Iwama, Kohsuke

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION INVENTION: DISEA

PRIOR PELICATION NUMBER: DIS 09/142,524

SOFTWARE: PatentIn version 3.1

SOFTWARE: PatentIn version 3.1

SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 48; DB 14; Length 15;
Pred. No. 0.57;
2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: MISC_FEATURE

1 LOCATION: (1)..(15)

2 OTHER INFORMATION: Cryjl peptide, Figure 1, Row 29

US-10-354-240-43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     i LOCATION: (1)...(15)
i OTHER INFORMATION: Cryjl peptide, Figure 1, Row 27
US-10-354-240-41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 43, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION:
                                                                                                                                                        Sequence 41, Application US/10354240
Publication No. US20030185847A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 71.4%;
Matches 10; Conservative
6 ISEASGVVPVHAQDG 20
                               1 INESFGVEPVHPQDG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 GNVLISEASGVVPV 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2 GNVLINESFGVEPV 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 3
US-10-354-240-43
                                                                                                                                        US-10-354-240-41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
  ò
                                           셤
```

```
B GVVDIHVWDG 17
                                                                                                                                                                                                                                                                                                                                  11 GVVPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JS-09-865-294-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-747-802-33
                                                                                                                                             TYPE: PRT
                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
APPLICANT: GOPALAKRISHNAKONE, Ponnampalam
APPLICANT: THANN, Maung-Maung
APPLICANT: ONG, Wei-Yi
APPLICANT: SATO, Kazuki
TITLE OF INVENTION: Phospholipase A2-Inhibitory Peptide with Anti-Arthritic and
TITLE OF INVENTION: Neuroprotective Activities
FILE REFERENCE: 101048G116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 91, Application US/0994595
Fublication No. US20030039981A1
Sequence 91, Application US/09994595
Fublication No. US2003003981A1
SEMERAL INFORMATION:
APPLICANT: Bhattacharjee, J.
APPLICANT: Bhattacherjee, Vasker
TITLE OF INVENTION: METHODS AND REAGENTS FOR DETECTING FUNGAL PATHOGENS IN
TITLE OF INVENTION: A BIOLOGICAL SAMPLE
FILE REFERENCE: 96,247-A
CURRENT APPLICATION NUMBER: 08/9994,595
CURRENT PILLING DATE: 2001-11-27
FRIOR FILLING DATE: 1997-05-20
NUMBER OF SEQ ID NOS: 160
SOFTWARE: Microsoft Word 97
SEQ ID NO 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
APPLICANT: Brown University Research Foundation
APPLICANT: DeGroot, Anne S
TITLE OF INVENTION: Human T Cell Response to MHC-Binding Motif Clusters
FILE REFERENCE: 17999-004-061
CURRENT APPLICATION NUMBER: US/10/239,103
CURRENT APPLICATION NUMBER: US/119
PRIOR APPLICATION NUMBER: 60/9813,333
PRIOR PILING DATE: 2001-03-20
PRIOR PILING DATE: 2000-03-20
NUMBER OF SEQ ID NOS: 81
SEQ ID NOS: 81
SEQ ID NO 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; OTHER INFORMATION: Polypeptide segment of ACVS_CEPAC shown in Figure 4. US-09-994-595-91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                      36.4%; Score 36; DB 15; Length 20; 54.5%; Pred. No. 79; ive 2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match

35.4%; Score 35, DB 10;
Best Local Similarity 75.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 0; Mismatches 2.
                                                                                                                                                                                                                                                                                                                                  ; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-239-103-51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 9, Application US/10836825A; Publication No. US20050069530A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 36.4
Best Local Similarity 54.5
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 : |||:| ||
10 TAVVPLHRSDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10 SGVVPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13 VPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9 VPTНКООО 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-836-825A-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-994-595-91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Journal of Application US/09865294

j Sequence 25, Application US/09865294

j Publication No. US20030068325A1

j GENERAL INFORMATION:
 j APPLICANT: Wang, Chang Y1

j TITLE OF INVENTION: Immunogenic peptide composition as vaccines for the
 j TITLE OF INVENTION: prevention and treatment of Alzheimer's Disease
 j TITLE OF INVENTION UNBERS: US/09/865,294

j CURRENT APPLICATION NUMBER: US/09/865,294

j CURRENT FILING DATE: 2001-05-25

j NUMBER OF SEQ ID NOS: 76

j SEQ ID NO 25

linGTH: 16

j TYPE: PRT

j CRCANISM: Measles virus

US-09-865-294-25
                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 33, Application US/09747802
Publication No. US20030027979A1
GENERAL INFORMATION:
APPLICANT: WANG, CHANG YI
TITLE OF INVENTION: SYNTHETIC PEPTIDE COMPOSITION AS IMMUNOGENS FOR TITLE OF INVENTION: PREVENTION OF URINARY TRACT INFECTION
FILE REFRENCE: 1151-4165
CURRENT APPLICATION NUMBER: US/09/747,802
CURRENT FILING DATE: 2000-12-22
NUMBER OF SEQ ID NOS: 88
SOFTWARE: PALENTIN Ver. 2.1
SEQ ID NO 33
LENGTH: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ï
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1;
                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 16;
                                                                                                                                                                                                                                                                 Score 34; DB 17; Length 18; 
Pred. No. 1.5e+02;
1; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; OTHER INFORMATION: DESCRIPTION Of Artificial Sequence:
; OTHER INFORMATION: SEQUENCE DERIVED FROM MEASLES VIRUS
US-09-747-802-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 33.8%; Score 33.5; DB 10; Best Local Similarity 53.3%; Pred. No. 1.6e+02; Matches 8; Conservative 2; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 33.8%; Score 33.5; DB 10; Best Local Similarity 53.3%; Pred. No. 1.6e+02; Matches 8; Conservative 2; Mismatches 4;
CURRENT APPLICATION NUMBER: US/10/836,825A CURRENT FILING DATE: 2004-04-30 NUMBER OF SEQ ID NOS: 18 SOFWARE: Patentin version 3.3 SEQ ID NO 9
                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 60.0%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    : |: || || || || 2 USDVKGVV-VHKVDG 15
                                                                                                                                                                                      , ORGANISM: Python reticulatus US-10-836-825A-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6 ISEASGVVPVHAQDG 20
```

ઠે 셤

```
APPLICANT: OCHAN, NUMCA RUDNA

APPLICANT: NICHOLLS, JOHN

TITLE OF INVENTION: A DIAGNOSTIC ASSAY FOR THE HUMAN VIRUS CAUSING SEVERE ACUTE
TITLE OF INVENTION: RESPIRATORY SYNDRONE (SARS)

TITLE OF INVENTION: RESPIRATORY SYNDRONE (SARS)

CURRENT FILING DATE: 2007

CURRENT FILING DATE: 2003-03-24

PRIOR PELLORATION NUMBER: 60/457,730

PRIOR PELLORATION NUMBER: 60/459,931

PRIOR PELLORATION NUMBER: 60/459,931

PRIOR PELLORATION NUMBER: 60/460,357

PRIOR PELLORATION NUMBER: 60/460,357

PRIOR PELLOR DATE: 2003-04-08

PRIOR PLING DATE: 2003-04-23

PRIOR PLING DATE: 2003-05-16

NUMBER OF SEQ ID NOS: 2476

SEQ ID NO 1608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: JOHN N. SIMONS
APPLICANT: JOHN V. SIMONS
APPLICANT: TAMI J. PILOT-MATIAS
APPLICANT: GEORGE J. DAWSON
APPLICANT: GEORGE G. SCHLAUDER
APPLICANT: SURESH M. DESAY
APPLICANT: HOMAS P. LEARY
APPLICANT: ANTHONY SCOTT MUERHOFF
APPLICANT: JAMES C. ERKER
APPLICANT: SHERI L. BUJKR
APPLICANT: SHERI L. BUJKR
APPLICANT: STA K. MUSHAHWAR
TITLE OF INVENTION: REAGENTS AND METHODS FOR THEIR USE
NUMBER OF SEQUENCES: 716
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Human severe acute respiratory system virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY: USA

ZIP: 60064-3500

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 32.3%; Score 32; DB 17;
Best Local Similarity 87.5%; Pred. No. 1.6e+02;
Matches 7; Conservative 0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   D377/AP6D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 366, Application US/08424550B
; Publication No. US20020119447A1
GENERAL INFORMATION:
APPLICANT: JOHN N. SIMONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET: 100 ABBOTT PARK ROAD CITY: ABBOTT PARK SAD STATE: 1.00 ABOTT PARK STATE: 1.00 ABOTT PARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7 SEASGVVP 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEASGPVP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-808-187-1608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 14
US-08-424-550B-366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Squence 25, Application US/10861614

Publication No. US20040247612A1

GENERAL INFORMATION:

APPLICANT: Wang, Chang Yi

TITLE OF INVENTION: Immunogenic peptide composition as vaccines for the prevention an TITLE OF INVENTION: Leatment of Alzheimer's Disease

TITLE OF INVENTION: Leatment of Alzheimer's Disease

TITLE OF INVENTION: Leatment of Alzheimer's Disease

CURRENT APPLICATION WHOBER: US/10/861,614

CURRENT PILING DATE: 2004-06-04

NUMBER OF SEQ ID NOS: 77

SOFTWARE: Patentin version 3.1

SEQ ID NO 25

LENGTH: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: SYNTHETIC PEPTIDE COMPOSITION AS IMMUNOGENS FOR TITLE OF INVENTION: SYNTHETIC PEPTIDE COMPOSITION AS IMMUNOGENS FOR TITLE OF INVENTION: PREVENTION OF URINARY TRACT INFECTION
FILE REFERENCE: 1124165
CURRENT APPLICATION NUMBER: US/10/789,619
CURRENT FILING DATE: 2004-02-27
NUMBER OF SEQ ID NOS: 88
SEQ ID NO 33
LENGTH: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: Description of Artificial Sequence: T HELPER; OTHER INFORMATION: SEQUENCE DERIVED FROM MEASLES VIRUS
US-10-789-619-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
33.8%; Score 33.5; DB 16; Length 16;
Best Local Similarity 53.3%; Pred. No. 1.6e+02;
Matches 8; Conservative 2; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 33.8%; Score 33.5; DB 16; Length 16; 53.3%; Pred. No. 1.6e+02; Live 2; Mismatches 4; Indels 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1608, Application US/10808187
Publication No. US20050009009A1
GENERAL INFORMATION:
APPLICANT: PEIRIS, JOSEPH S. M.
APPLICANT: YUEN, KWOK YUNG
APPLICANT: POON, LIT MAN
APPLICANT: GUAN, YI
                                                                                                                                                                           US-10-789-619-33
; Sequence 33, Application US/10789619
; Publication No. US20040141993A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Artificial Sequence
6 ISBASGVVPVHAQDG 20
:|:|||||||
2 VSDVKGVV-VHKVDG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6 ISEASGVVPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2 VSDVKGVV-VHKVDG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6 ISEASGVVPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 53.3
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT ORGANISM: Measles virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-808-187-1608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-861-614-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-861-614-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
```

ઠે 셤 ઠે 셤 4 MSPSNNVVPIH 14

```
Search completed: June 20, 2005, 15:55:12
Job time : 53.45 secs
        유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-LU-//roll3-16

PUBLICATION NO. US20040226056A1

SEQUENCE 316, Application US/10776013

PUBLICATION NO. US20040226056A1

SERRAL INFORMATION:

APPLICANT: MATTAD GENETICS, INC.

APPLICANT: Bartel, Dean-Marc

APPLICANT: Bartel, Dean-Marc

APPLICANT: Heichman, Karen

ITILE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING NEUROLOGICAL DISORDERS AND

ITILE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING NEUROLOGICAL DISORDERS AND

ITILE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING NEUROLOGICAL DISORDERS AND

ITILE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING NEUROLOGICAL DISORDERS AND

ITILE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING NEUROLOGICAL DISORDERS AND

FRIOR FILING DATE: 2004-02-09

PRIOR FILING DATE: 1999-12-21

PRIOR FILING DATE: 1999-12-21

PRIOR PELICATION NUMBER: 60/14124

PRIOR PERIOR PELICATION NUMBER: 60/14124

PRIOR PERIOR PELICATION NUMBER: 60/14124

PRIOR PERIOR PERIO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
32.3%; Score 32; DB 16; Length 20;
Best Local Similarity 45.5%; Pred. No. 3.7e+02;
Matches 5; Conservative 4; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 32.3%; Score 32; DB 8; Length 16; Best Local Similarity 100.0%; Pred. No. 2.8e+02; Matches 6; Conservative 0; Mismatches 0; Indels
                        FILING DATE:
CLASSIFCATION: 415435
ATTORNEY, FACENT INFORMATION:
NAME: POREMBRI, PRISCILLA E.
REGISTRATION NUMBER: 33,207
REFERENCE/DOCKET NUMBER: 5527.PC.01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 708-938-2623
INFORMATION FOR SEQ ID NO: 366:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
TYPE: amino acid
TYPE: amino acid
TYPE: amino acid
TYPE: DOLOGY: linear
WOLECULE TYPE: protein
US-08-424-5508-366
APPLICATION NUMBER: US/08/424,550B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
CRGANISM: Homo sapiens
US-10-776-013-316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     13 VPVHAQ 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4 VPVHAQ 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 316
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
```

6 ISEASGVVPVH 16

ઠે

THIS PAGE BLANK (USPTO)

```
02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JS-08-467-023-39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Appl
Appli
A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Seguence 39, Appl
Seguence 42, Appl
                                                                                                                                                                         June 20, 2005, 14:04:11; Search time 16.15 Seconds (without alignments) 92.445 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 9
Sequence 4
Sequence 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence Sequence Sequence Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Issued Patents AA:*

(cgn2_6/ptodata//iaa/5A_COMB.pep:*

(cgn2_6/ptodata/1/iaa/8B_COMB.pep:*

(cgn2_6/ptodata/1/iaa/6A_COMB.pep:*

(cgn2_6/ptodata/1/iaa/ReCOMB.pep:*

(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*

(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*

(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-467-023-39

US-09-142-524D-42

US-09-142-524D-41

US-09-142-524D-43

US-09-106-56BE-91

US-09-106-56BE-91

US-09-106-68B-4

US-09-106-69B-4

US-09-107-003-4

US-09-107-003-4

US-09-107-003-4

US-09-107-003-3

US-09-107-003-3

US-09-107-003-3

US-09-107-003-3

US-08-467-366

US-08-467-344A-366

US-08-467-344A-366

US-08-467-344A-366

US-08-467-344A-366

US-08-467-344A-366

US-09-100-414B-21

US-09-303-323-15

US-09-303-323-15

US-09-303-323-15

US-09-770-014-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                    - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                            1 SGNVLISEASGVVPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                       BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                US-09-202-464-16
99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                          Scoring table:
                                                                                                                OM protein
                                                                                                                                                                                                                                                                                                                                                               Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Searched:
                                                                                                                                                                               Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š.
```

55, Appl 57, Appl	22, Appl 53, Appl	10, Appl 22, Appl	18, Appl	i, Appli	3, Appl	i, Appli	13, Appl	i, Appli	13, Appl	, Appli	.3, Appl	S, Appl	18, Appl	12, Appl
Sequence	Sequence Sequence	Sequence Sequence S	Sequence	Sequence (Sequence 1	Sequence	Sequence 1	Sequence (Sequence 1	Sequence (Sequence 1	Sequence 3	Sequence	Sequence 4
US-09-747-802-55 US-09-747-802-57	US-08-476-062A-22 US-09-563-222C-63	US-09-142-524D-40 PCT-US96-01314-22	US-08-467-023-38	US-09-100-414B-6	US-09-100-414B-13	US-09-303-323-6	US-09-303-323-13	US-09-770-014-6	US-09-770-014-13	US-09-701-588C-6	US-09-701-588C-13	US-09-747-802-35	US-09-747-802-38	US-09-747-802-42
44	0 4	4. ru	m	e	٣	ო	m	4	4	4	4	4	4	4
19	15	15	20	15	15	15	12	15	15	15	15	15	15	15
31.8	31.3 31.3	31.3	31.3	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
31.5	31 31	31	31	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
28	30 31	332	34	35	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

```
US-08-467-023-19

19-08-467-023-19

19 Sequence 39, Application US/08467023

19 Patent No. 600386

20 GENERAL INPORMATION

20 APPLICANT Cariffeth, Irwin J.;

APPLICANT Cariffeth, Irwin H.;

APPLICANT Exley, Mai-Chang;

APPLICANT Exley, Mark A.;

APPLICANT Exley, Mark A.;

APPLICANT Brauer, Andrew, P.

TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Applicant Proteins And Peptides From TITLE OF INVENTION: Sequence Cedar Pollen

COUNTRY: WAS THATE TO THE PROPY disk COUNTRY: USA

COUNTRY: WAS THATE TOOS/WAS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,023

FILING DATE: Unne f, 1995

FILING DATE: Unne F, Remillard

REGISTRATION NUMBER: 08/350,225

FILING DATE: NUMBER: 08/350,225

FILING DATE: Remillard

REFERENCE CHARACTERISTICS:

LENGTH: 20 amino acids

TYPE: Innear MODELIC TION: Applied TYPE: Innear MODELIC TYPE: Innear MODEL
```

```
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohauke
TILLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION WINBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: PCT/JP97/00740
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
                                                                                                                                                          ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-467-023-40

| Sequence 40, Application US/08467023
| Sequence No. 6090386
| Patent No. 60903868
| Patent No. 6090
                                                                                             Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 15;
                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SB: ImmuLogic Pharmaceutical Corporation, Inc. 610 Lincoln St
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     , OTHER INFORMATION: Cryjl peptide, Figure 1, Row 29 US-09-142-524D-43
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 27
US-09-142-524D-41
                                                                                             DB 4;
0.13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 43; DB 4;
Pred. No. 0.89;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Mismatches
                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                           US-09-142-524D-43; Sequence 43, Application US/09142524D; Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 80.0%;
Matches 8; Conservative (
                                                                                          Query Match
Best Local Similarity 71.4%;
Matches 10; Conservative
                                                                                                                                                                                                                          2 GNVLISEASGVVPV 15
                                                                                                                                                                                                                                                              2 GNVLINESFGVEPV 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11 GVVPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 GVEPVHPQDG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: MISC_FEATURE LOCATION: (1)...(15)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STATE: MA
COUNTRY: US
ZIP: 02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 43
                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                              Sequence 42. Application US/09142524D

| Sequence 42. Application US/09142524D
| Patent No. 6719976
| GENERAL INFORMATION:
| APPLICANT: Sone, Toshio
| APPLICANT: Kune, Akinori
| APPLICANT: Iwama, Akino
| PILE REFERENCE: SPO-103
| CURRENT APPLICATION NUMBER: US/09/142,524D
| CURRENT FILING DATE: 1998-09-09
| PRIOR FILING DATE: 1997-03-10
| NUMBER OF SEQ ID NOS: 174
| SEQ ID NO 42
| LENGTH: 15
| LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 41, Application US/09142524D

Patent No. 6719976

GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Mine, Akinori
APPLICANT: Mine, Mohake
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT PILING DATE: 1998-09-09
PRIOR PEPLICATION WUMBER: PCT/JP97/00740
PRIOR PELLING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
COSTWARE: Patentin version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                   ö
                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                   .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 52.5%; Score 52; DB 4; Length 15; Best Local Similarity 66.7%; Pred. No. 0.027; Matches 10; Conservative 2; Mismatches 3; Indels
                                                             72.7%; Score 72; DB 3; Length 20; 73.7%; Pred. No. 1.7e-05;
                                                                                                                                3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (1)...(15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 28
US-09-142-524D-42
                                                                                                                                2; Mismatches
                                                                                                                                                                                             2 GNVLISEASGVVPVHAQDG 20
                                                                                                                                                                                                                             2 GNVLINESFGVEPVHPQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6 ISEASGVVPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |:|: || ||| |||
1 INESFGVEPVHPQDG 15
                                                                                                                                14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (1). (15)
                                                                                                Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                 RESULT 2
US-09-142-524D-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-142-524D-41
      US-08-467-023-39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 41
LENGTH: 15
                                                                      Query Match
                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
```

```
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Bhattacharjee, J.
APPLICANT: Shattacharjee, J.
APPLICANT: Shattacharjee, J.
APPLICANT: Bhattacherjee, Vasker
APPLICANT: Bhattacherjee, Vasker
TITLE OF INVENTION: METHODS AND REAGENTS FOR DETECTING FUNGAL PATHOGENS IN
TITLE OF INVENTION: METHODS AND REAGENTS FOR DETECTING FUNGAL PATHOGENS IN
TITLE OF INVENTION: METHODS AND SAMPLE
FILE REFERENCE: 96,247-A
CURRENT APPLICATION NUMBER: US/09/106,568E
CURRENT FILING DATE: 1997-06-20
PRIOR APPLICATION NUMBER: 08/650,809
PRIOR APPLICATION NUMBER: 08/650,809
PRIOR PILING DATE: 1997-05-20
SOFTWARE MICROSOFT WORD 97
SEQ ID NO 91
LENGTH: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; OTHER INFORMATION: Polypeptide segment of ACVS_CEPAC shown in Figure 4.
US-09-106-568E-91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         43.4%; Score 43; DB 3; Length 20; 80.0%; Pred. No. 1.3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           35.4%; Score 35; DB 4; Length 19; 75.0%; Pred. No. 26; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2; Indels
                        COMPUTER READMED FORMS

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. 1.3
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 6
US-09-106-568E-91
; Sequence 91, Application US/09106568E
; Patent No. 6455248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 75.v.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11 GVVPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 GVEPVHPQDG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     13 VPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9 VPTHKODG 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-467-023-40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
```

RESULT 7 US-09-100-414B-4

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Second 63, Application US/09100409A

Patent No. 6090388

GENERAL INFORMATION:
APPLICANT: Wang, Chang Yi
TITLE OF INVENTION: PEPTIDE COMPOSITION FOR
TITLE OF INVENTION: IMMUNE DISORDERS
ITILE OF INVENTION: IMMUNE DISORDERS
NUMBER OF SEQUENCES: 64
CORRESPONDENCE ADDRESS:
ADDRESSE:
ADDRESSE:
CITY: New YORK Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ٦,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             33.8%; Score 33.5; DB 3; Length 16; 53.3%; Pred. No. 38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indela
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDIUM TYPE: Floppy disk COMPUTER: IBM PC COMPAtible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version SOFTWARE: #1.2 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/09/100,409A FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2; Mismatches
Sequence 4, Application US/09100414B;
Patent No. 6025468;
GENERAL INFORMATION:
APPLICANT: Wang, Chang Yi
TITLE OF INVENTION: INMUNOGENS;
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSEE: Morgan & Finnegan, L.L.P.
STREET: 345 Park Avenue
                                                                                                                                                                                                                                       COUNTY: USA
ZIP: 10154-0054
ZIP: 10154-0054
ZIP: 10154-0054
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC Windows
SOFTWARE: Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/100,414B
FILING DATE: 20-CUMR-1998
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: MARIA H. Lin
REJERGOMMUNICATION INFORMATION:
TELEPHONE: 212-758-4800
TELEPHONE: 212-751-6849
INFORMATION FOR SEC ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids

WINDER: MINIOR FOR SEC ID NO: 4:
LENGTH: 16 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     : |: || || || 2 vSDVKGVV-VHKVDG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6 ISEASGVVPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 53.3*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STATE: NY
COUNTRY: USA
ZIP: 10154-0054
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy di
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 8
US-09-100-409A-63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-100-414B-4
```

```
US-09-701-588C-4; Sequence 4, Application US/09701588C; Patent No. 6713301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 53.3%;
Matches 8; Conservative ;
2 VSDVKGVV-VHKVDG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 VSDVKGVV-VHKVDG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6 ISEASGVVPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: 212-751-6849
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: USA
ZIP: 10154-0054
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY: LINEAR
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              amino acid
                                                                            RESULT 10
US-09-770-014-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-770-014-4
                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                       1;
                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ä
                                                                                                                                                                                                                                                                                                               33.8%; Score 33.5; DB 3; Length 16; 53.3%; Pred. No. 38; tive 2; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 3; Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 33.5;
Pred. No. 38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 4. Application US/09303323
; Patent No. 6228987
; GENERAL INFORMATION:
    TITLE OF INVENTION: NOVEL LHRH PEPTIDE
; TITLE OF INVENTION: IMMUNOGENS
; TITLE OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
    ADDRESSEE: MORGAN & Finnegan, L.L.P.
; STREET: 345 Park Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: New York
STATE: NY
COUNTY: USA
ZIP: 10154-0054

ZIP: 10154-0054

COMPUTER READABLE FORM:
MEDIUM TYPE: Eloppy disk
COMPUTER: IDM PC compacible
OPERATING SYSTEM: PC Windows
SOFTWARE: Mord 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/303,323
FILING DATE: 30-APR-1999
CLASSIPICATION NUMBER: 09/100,414
FILING DATE: 20-UNDE-1998
ATTORNEY/AGENT INFORMATION:
NAME: MATIA H. LÎN
REGISTRATION NUMBER: 29,323
REFERENCE/DOCKET NUMBER: 1151-4157
TELECOMMUNICATION INPORMATION:
                                                                                1151-4154
                                                  REGISTRATION NUMBER:
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-758-4800
TELEFAX: 212-751-6849
INFORMATION FOR SEQ 1D NO: 63:
SEQUENCE CARACTERISTICS:
LENGTH: 16 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      33.8%;
53.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: 212-751-6849
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
                                                                                                                                                                                                                                                                                                                                                                                           6 ISEASGVVPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                  : |: ||| || ||
2 VSDVKGVV-VHKVDG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6 ISEASGVVPVHAQDG 20
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 53.31
Fines 8; Conservative
                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 53.33
Matches 8; Conservative
                                                                                                                                                                                                              TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; TOPOLOGY: LINEAR; MOLECULE TYPE: peptide US-09-303-323-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          amino acid
                                                                                                                                                                                                                                                                        US-09-100-409A-63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 9
US-09-303-323-4
                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                요
```

```
STEER NO. 6/JLJOYL
GENERAL INFORMATION:
APPLICANT: UNITED BIOMEDICAL INC., ET AL.
TITLE OF INVENTION: BRITISTCIAL T HELPER CELL
EPITOPES AS IMMUNE STIMULATORS FOR SYNTHETIC
EPITOPE IMMUNOGENS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 4; Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Morgan & Finnegan, L.L.P.
STREET: 345 Park Avenue
CITY: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
Sequence 4, Application US/09770014

Patent No. 6559282

GENERAL INFORMATION:
TITLE OF INVENTION: NOVEL LHRH PEPTIDE
TITLE OF INVENTION: INMUNOGENS
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSEE: Morgan & Finnegan, L.L.P.
STREET: NY
STREET: NY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 33.5;
Pred. No. 38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: USA
ZIP: 10154-0054
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC Windows
SOFTWARE: Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/770,014
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1151-4157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRPLICALLO...
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/100,414
FILING DATE: 20-JUNE-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maria H. Lin
REGISTRATION NUMBER: 29,323
REFERENCE/DOCKET NUMBER: 1151-4
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION INFO
```

ö

Gaps

;

```
Length 14;
                    APPLICANT: Michael H. Shapero
APPLICANT: Lariaa Teavaler
TITLE OF INVENTION: Prostate Tumor Polynucleotide and
TITLE OF INVENTION: Antigen Compositions
FILE REFERENCE: 7636-0015.30
CURRENT APPLICATION NUMBER: US/09/112,096
CURRENT FILING DATE: 1998-07-09
EARLIER APPLICATION NUMBER: 60/056,110
BARLIER FILING DATE: 1997-08-20
NUMBER OF SEQ ID NOS: 29
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               E: Akzo No. 5951985el Patent Department
1300 Piccard Drive, Suite 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Butler, Sandra M.
APPLICANT: Butler, Sandra M.
APPLICANT: Boutler, Nicholas
APPLICANT: Boos, Ebo
APPLICANT: Hanna, Micheal G.
APPLICANT: Haspel, Martin V.
APPLICANT: No. SEGIENCES: 7
COTRESPONDESS: ARZO NO. 5951985el Patent Department STREET: 1300 Piccard Drive, Suite 206
CITY: Rockville
STATE: SACKVILLE
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/960,128
                                                                                                                                                                                                                                                                                                                                                                                                                                         33.3%; Score 33; DB 3;
58.3%; Pred. No. 39;
tive 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION:
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE: 07-UN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Gormley, Mary E.
REGISTRATION NUMBER: 34,409
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC COMPATIBLE OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; Sequence 6, Application US/08960128
; Patent No. 5951985
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: (301) 977-0847
INFORMATION FOR SEQ ID NO: 6: SEQUENCE CHARACTER.STICS: LENGTH: 15 amino acids TYPE: amino acid STRANDEDNESS: not relevant TOPOLOGY: not relevant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 58.3-
Rest Local 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3 VKINEKSGKIPV 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4 VLISEASGVVPV 15
                                                                                                                                                                                                                                                                                                                 LENGTH: 14
TYPE: PRT
ORGANISM: Homo Bapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                              US-09-112-096-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
APPLICANT: WANG, CHANG YI
TITLE OF INVENTION: SYNTHETIC PEPTIDE COMPOSITION AS IMMUNOGENS FOR
TITLE OF INVENTION: PREVENTION OF URINARY TRACT INFECTION
FILE REFERENCE: 1151-4165
CURRENT APPLICATION NUMBER: US/09/747,802
CURRENT FILING DATE: 2000-12-22
NUMBER OF SEQ ID NOS: 88
SOFTWARE: PATENTIN Ver. 2.1
SEQ ID NO.33
LENGTH: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ï
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      33.8%; Score 33.5; DB 4; Length 16; 53.3%; Pred. No. 38; tive 2; Mismatches 4; Indel8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 4; Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: DESCRIPTION Of Artificial Sequence: COTHER INFORMATION: SEQUENCE DERIVED FROM MEASLES VIRUS US-09-747-802-33
            MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
SOFTWARE: Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/701,588C
FILING DATE: 29-No. 6713301-2002
CLASSIFICATION NUMBER: 09/100,414
FILING DATE: 20-JUNE-1998
ATTORNEY/AGENT INFORMATION:
NAME: WATIA H. Lin
REGISTRATION NUMBER: 29,323
REFERENCE/DOCKET NUMBER: 1151-4158PC1
TELECOMONICATION STORE 1151-4158PC1
TELEFAX: 212-758-4800
TELEFAX: 17PE: amino acids
TYPE: amino acids
TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 33.5; DE
Pred. No. 38;
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: LINEAR

MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-701-588C-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-112-096-11; Sequence 11, Application US/09112096; Patent No. 619415; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; Sequence 33, Application US/09747802; Patent No. 6780969
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 53.3%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 ISEASGVVPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6 ISEASGVVPVHAQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 VSDVKGVV-VHKVDG 15
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 33.8
Best Local Similarity 53.3
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 12
US-09-747-802-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
```

g

g

Job time : 16.15 secs

```
ö
                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                   PARENT NO. 64512798
PARENT NO. 64512798
PARENT NO. 64512798
PAPLICANT: JOHN N. SIMONS
PAPLICANT: JOHN N. SIMONS
PAPLICANT: GEORGE J. DAWSON
PAPLICANT: GEORGE G. SCHLAUDER
APPLICANT: GEORGE G. SCHLAUDER
APPLICANT: GEORGE G. SCHLAUDER
APPLICANT: SURBEH M. DEARY
APPLICANT: SHERI L. BUIJA
APPLICANT: SHERI L. BUIJA
APPLICANT: SHERI L. BUIJA
APPLICANT: SA K. MUSHAHMAR
TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS
TITLE OF INVENTION: REAGRATS AND METHODS FOR THEIR USE
INVERSE OF SURBEYS: 716
CORRESPONDENCE ADDRESS:
ADDRESSEE: ABBOTT PARK ROAD
STREET: 100 ABBOTT PARK ROAD
CITY: ABBOTT PARK
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: BEAGALSOO
COMPUTER: BEAGALSOO
COMPUTER: BEAGALSOO
COMPUTER: COLOS/MS-DOS
SURBENT: APPLICATION NUMBER: US/08/469,260A
FILING DATE: PARCHINE NUMBER: US/08/469,260A
FILING DATE: PRECEIVE RESCULAL E.
FILING DATE: RESCULLA E.
RECEISTRATION NUMBER: US/08/424,550
TELEPHONE: 708-937-6365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                      Gaps
                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            32.3%; Score 32; DB 4; Length 16; 100.0%; Pred. No. 68; 0; Indels tive 0; Mismatches 0; Indels
                                                  32.3%; Score 32; DB 2; Length 15; 60.0%; Pred. No. 63; 1; Indels tive 3; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                               RESULT 15
US-08-469-260A-366
; Sequence 366, Application US/08469260A
; Patent No. 6451578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 32.3
Best Local Similarity 100.
Matches 6; Conservative
                                                                                                                   6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE: protein
                                                                                                                                                                               5 LISEASGVVP 14
                                                                                                                                                                                                              |:||:| |:|
5 LVSESSDVLP 14
                                                     Query Match
Best Local Similarity
Matches 6; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13 VPVHAQ 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |||||||
4 VPVHAQ 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-469-260A-366
US-08-960-128-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                  à
                                                                                                                                                                                                                                       요
```

Search completed: June 20, 2005, 14:22:17

Run on:

```
June 20, 2005, 14:14:01; Search time 53.45 Seconds (without alignments) 143.678 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Published Applications AA:*

| Cgn2_6/ptodata/2/pubpaa/USO7_PUBCOMB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO6_NEW_PUB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO6_PUBCOMB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO6_PUBCOMB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO7_NEW_PUB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO7_NEW_PUB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             332641
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1714042 segs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                       - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                          104
1 GVVPVHAQDGDAITMRNVTD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                     US-09-202-464-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                                                     Title:
Perfect score:
Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Scoring table:
                                                                                                                                           OM protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Database :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Searched:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description	Sequence 43, Appl	Sequence 44, Appl	Sequence 42, Appl	Sequence 91, Appl	Sequence 51, Appl	Sequence 51, Appl	Sequence 51, Appl	Sequence 9, Appli	Sequence 366, App	Sequence 13, Appl	Sequence 53, Appl
QI	US-10-354-240-43	US-10-354-240-44	US-10-354-240-42	US-09-994-595-91	US-09-813-333-51	US-10-044-703-51	US-10-239-103-51	US-10-836-825A-9	US-08-424-550B-366	US-10-468-543-13	US-10-256-850-53
DB	14	14	14	10	0		15	17	80	15	15
.* Query Match Length DB	15	15	15	19	20	20	20	18	16	11	13
.* Query Match	59.6	51.9	41.3	35.6	33.7	33.7	33.7	32.7	30.8	29.8	29.8
Score	62	54	43	37	35	35	35	34	32	31	31
Result No.	1	(7)	m	4	s	9	7	ω	O.	10	==

ö

Gaps ö

Query Match 59.6%; Score 62; DB 14; Length 15; Best Local Similarity 73.3%; Pred. No. 0.0024; Matches 11; Conservative 2; Mismatches 2; Indels

Sequence 39, Appl Sequence 61, Appl Sequence 190, App Sequence 2, Appli Sequence 2, Appli Sequence 56, Appl Sequence 378, Appl Sequence 248, Appl Sequence 248, Appl Sequence 248, Appl Sequence 378, Appl Sequence 378, Appl Sequence 378, Appl Sequence 378, Appl Sequence 248, Appl Sequence 378, Appl Sequence 37, Appl Sequence 13, Appl Sequence 12, Appl Sequence 13, Appl Sequence 12, Appl Sequence 675, Appl	tic Agent for Treating Allergic Disea
US-09-826-290-39 US-09-826-290-61 US-10-264-309-190 US-10-264-309-190 US-10-256-850-56 US-10-256-850-56 US-10-354-248 US-09-735-705-248 US-09-850-716A-248 US-09-850-716A-248 US-09-850-716A-248 US-09-897-778-378 US-09-897-778-378 US-09-897-778-378 US-10-117-982-378 US-10-117-982-378 US-10-313-986-248 US-10-313-366-312 US-10-313-366-312 US-10-356-191-12 US-09-990-186-675 US-09-990-186-675	LIGNMENTS Immunotherapeutic 354,240 /00740 2,524 Figure 1, Row 29
US-09-82 US-09-82 US-09-82 US-00-73 US-09-73 US-09-85 US-10-10-10-10-10-10-10-10-10-10-10-10-10-	8ed (100/29) 7P97 146,
00011111000000111111111111111111111111	S/10 de-B de-B de-B 3-10 0.05 n 3.10 poni,
444400000000000000000000000000000000000	H-240-43 He 43, Application US/1035 He 43, Application US/1035 He 43, Application US/1035 He 43, Application US/1035 He 44, Application He 45, Application He 46, Application He 47, App
### ##################################	Lice 1932 1932 1932 1932 1933 1934 1935
6 5 6 6 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8	43 Applica Applica No. US: Sone, TO Kume, A Dairriki Iwama, Kino, K Kino, K VENTION: NCE: SPO LICATION IG DATE: CATION IG DATE: EQ ID NO atentin CTyptome MISC_FEA
11111111000000000000000000000000000000	RESULT 1 US-10-354-24 Sequence 4 Publication GENERAL IN APPLICANT

à 셤

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                 APPLICANT: Bhattacharjee, J.
APPLICANT: Bhattacharjee, J.
APPLICANT: Buattacharjee, J.
APPLICANT: Bhattacherjee, Vasker
APPLICANT: Bhattacherjee, Vasker
TITLE OF INVENTION: METHOD AND REAGENTS FOR DETECTING FUNGAL PATHOGENS IN
TITLE OF INVENTION: A BIOLOGICAL SAMPLE
FILE REFERENCE: 96, 247-A
CURRENT APPLICATION NUMBER: US/09/994,595
CURRENT APPLICATION NUMBER: US/650,809
PRIOR APPLICATION NUMBER: 08/650,809
PRIOR FILING DATE: 1997-05-20
NUMBER OF SEQ ID NOS: 160
SOFTWARE: Microsoft Word 97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; OTHER INFORMATION: Polypeptide segment of ACVS_CEPAC shown in Figure 4. US-09-994-595-91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 51, Application US/0981333
| Sequence 51, Application US/0981333
| Patent No. US20020119160A1
| GENERAL INFORMATION:
| APPLICANT: DeGroot, Anne 8
| TITLE OF INVENTION: Human T Call Response to MHC-Binding Motif Clusters
| TITLE OF INVENTION: Human T Call Response to MHC-Binding Motif Clusters
| FILE REFERENCE: 17999-004 US
| CURRENT PELING DATE: 2001-03-20
| PRIOR FILING DATE: 2000-03-20
| NUMBER OF SEQ ID NOS: 81
| SOFTWARE: Patentin Ver. 2.1
| SEG ID NOS: 81
                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                 DB 14; Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 37; DB 10; Length 19;
Pred. No. 46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 35; DB 9; Length 20;
Pred. No. 1.1e+02;
1; Mismatches 2; Indels
                                                            2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2; Indels
                    Score 43; DB 1
Pred. No. 3.5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1; Mismatches
                                                            0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; TYPE: PRT;
; ORGANISM: Mycobacterium tuberculosis
US-09-813-333-51
                                                                                                                                                                                                                                                     Sequence 91, Application US/09994595; Publication No. US20030039981A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      35.6%;
66.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  33.7%;
                 41.3%;
80.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT ORGANISM: Artificial sequence
               Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 66.7
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 66.7
Matches 6; Conservative
                                                                                                                            6 GVEPVHPQDG 15
                                                                                                      1 GVVPVHAQDG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |||:| ||
12 VVPLHRSDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3 VPVHAQDGD 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 VVPVHAQDG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9 VPTHKQDGE 17
                                                                                                                                                                                                                                   US-09-994-595-91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-813-333-51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 91
LENGTH: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 20
                                                                                                                                                                                                               RESULT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 5
                                                                                                        ò
                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Iwama, Akiko
CURRENT: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT PILING DATE: 1997-03-10
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SSOFTWARE: Patentin version 3:1
SSOFTWARE: Patentin version 3:1
                                                                                                                                                                                                                          APPLICANT: Kume, Akinoxi
APPLICANT: Kume, Akinoxi
APPLICANT: Bairiki, Kazuo
APPLICANT: Mama, Akiko
APPLICANT: Mama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103D1
CURRENT FILING DATE: 2003-01-29
PRIOR APPLICATION NUMBER: DCT/JP97/00740
PRIOR APPLICATION NUMBER: US 09/142,524
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 44
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 51.9%; Score 54; DB 14; Length 15; 60.0%; Pred. No. 0.051; tive 3; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; LOCATION: (1)...(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 30
US-10-354-240-44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCATION: (1) [(15) CT) Deptide, Figure 1, Row 28 US-10-354-240-42
                                                                                                                                            Sequence 44, Application US/10354240
Publication No. US20030185847A1
GENERAL INFORMATION:
APPLICANT: Sone, Toshio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 42, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Cryptomeria japonica
1 GVVPVHAQDGDAITM 15
                          1 GVEPVHPQDGDALTL 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6 HAQDGDAITMRNVTD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 |||||:|:|
1 HPQDGDALTLRTATN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 60.09
Matches 9, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
NAME/KEY: MISC FEATURE
                                                                                                                          US-10-354-240-44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 3
US-10-354-240-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

g

```
CURRENT APPLICATION NUMBER: US/10/836,825A CURRENT FILING DATE: 2004-04-30
WUMBER OF SEQ ID NOS: 18
SOFTWARE: Patentin version 3.3
                                                                                                                                   ; TYPE: PRT
; ORGANISM: Python reticulatus
US-10-836-825A-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 6064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 100.v
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION: 435435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSEE: ABBOTT LA
                                                                                                                                                                                                                                                                                                                 1 GVVPVHAQDG 10
                                                                                                                                                                                                                                                                                                                                             ||| :| ||
8 GVVDIHVWDG 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CITY: ABBOTT PARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3 VPVHAQ 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 9
US-08-424-550B-366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-424-550B-366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET:
                                                                                          SEQ ID NO 9
                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 9, Application US/10836825A
Publication No. US20050069530A1
GENERAL INFORMATION:
GENERAL THORNATION:
APPLICANT: GOPALAKRISHNAKONE, Ponnampalam
APPLICANT: THWIN, Maung-Maung
APPLICANT: ONG, Wei-Yi
APPLICANT: SATO, Kazuki
TITLE OF INVENTION: Phospholipase A2-Inhibitory Peptide with Anti-Arthritic and
TITLE OF INVENTION: Neuroprotective Activities
FILE REFERENCE: 101045G116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                US-10-044-703-51

Sequence 51, Application US/10044703

Sequence 51, Application US/10044703

Publication No. US20020192233A1

GENERAL INFORMATION:

APPLICANT: DeGroot, Anne S

TITLE OF INVENTION: Human T cell Response to MHC-Binding Motif Clusters

FILE REFERENCE: 17999-004 US

CURRENT APPLICATION NUMBER: US/10/044,703

CURRENT FILING DATE: 2002-05-20

PRIOR FILING DATE: 2000-03-20

NUMBER OF SEQ ID NOS: 81

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 5.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 51, Application US/10239103
Sequence 51, Application US/10239103
Publication No US20040057961A1
GENERAL INFORMATION:
APPLICANT: Brown University Research Foundation
APPLICANT: DeGroot, Anne S
TITLE OF INVENTION: Human T Cell Response to MHC-Binding Motif Clusters
FILE REFERENCE: 17999-004-061
CURRENT FILING DATE: 2002-09-19
PRIOR APPLICATION NUMBER: 09/813,333
PRIOR FILING DATE: 2001-03-20
PRIOR PRIOR PLICATION NUMBER: 60/190,834
PRIOR FILING DATE: 2000-03-20
PRIOR FILING DATE: 2000-03-20
PRIOR FILING DATE: 2000-03-20
NUMBER OF SEQ ID NOS: 81
SOFTWARE: Patentin Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
33.7%; Score 35; DB 15; Length 20;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                   33.7%; Score 35; DB 13; Length 20; 66.7%; Pred. No. 1.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                           ; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-044-703-51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-239-103-51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity 66.7
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |||:| ||
12 VVPLHRSDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 VVPVHAQDG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |||:| ||
12 VVPLHRSDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 VVPVHAQDG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-836-825A-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -10-239-103-51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 51
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: JOHN N. SIMONS
APPLICANT: TAMI J. PILOT-MATIAS
APPLICANT: GEORGE J. DAWSON
APPLICANT: GEORGE G. SCHLAUDER
APPLICANT: SURESH M. DESAN
APPLICANT: THOMAS P. LEARY
APPLICANT: THOMAS P. LEARY
APPLICANT: JAMES C. ERKER
APPLICANT: JAMES C. ERKER
APPLICANT: SHERI L. BUIJK
APPLICANT: SIA K. MUSHAHWAR
APPLICANT: SIA K. MUSHAHWAR
APPLICANT: SIA K. MUSHAHWAR
APPLICANT: SIA K. MUSHAHWAR
APPLICANT: SIA K. MOSHAHWAR
APPLIC
                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
Score 34; DB 17; Length 18;
Pred. No. 1.4e+02;
1; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/424,550B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30.8%; Score 32; DB 8; L4 100.0%; Pred. No. 2.6e+02; tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          D377/AP6D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
NAME: POREMBSKI, PRISCILLA E.
REGISTRATION NUMBER: 33,207
REFERENCE/DOCKET NUMBER: 5527.PC.01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 708-937-6365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 366, Application US/08424550B Publication No. US20020119447A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          E: ABBOTT LABORATORIES
100 ABBOTT PARK ROAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: 708-938-2623
INFORMATION FOR SEQ ID NO: 366:
     Query Match 32.7%;
Best Local Similarity 60.0%;
Matches 6; Conservative
```

```
APPLICANT: Priedman, L.Kathryn
APPLICANT: Friedman, David L.
APPLICANT: Friedman, David L.
APPLICANT: Herath, Herath Mudiyanselage Athula Chandrasiri
APPLICANT: Herath, Haida H.
APPLICANT: Herath, Rajesh Bhikhu
APPLICANT: Parekh, Rajesh Bhikhu
APPLICANT: Porter, David M.
APPLICANT: Stiger, Thomas R.
APPLICANT: Stiger, Thomas R.
APPLICANT: Stiger, Thomas R.
APPLICANT: Stiger, Thomas R.
APPLICANT: White, Frost
APPLICANT: White, Frost
APPLICANT: White, Frost
APPLICANT: Williams, Stephen A.
TITLE OF INVENTION: Nocleic Acid Molecules, Polypeptides and
TITLE OF INVENTION: Nocleic Acid Molecules, Polypeptides and
TITLE OF INVENTION: Alzheimer's Disease
TITLE OF INVENTION NUMBER: US 60/194.504
PRIOR FILING DATE: 2000-04-30
PRIOR FILING DATE: 2000-04-30
PRIOR FILING DATE: 2000-04-30
PRIOR FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 492
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NOS: 492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Williams, Stephen A.

TITLE OF INVENTION: Nucleic Acid Molecules, Polypeptides and
TITLE OF INVENTION: Uses Therefor, Including Diagnosis and Treatment of
TITLE OF INVENTION: Alzheimer's Disease
FILE REFERENCE: 2572-1-001 NZ
CURRENT APPLICATION NUMBER: US/09/826,290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 51, Application US/09826290
Patent No. US20020164668A1
GENERAL INFORMATION
APPLICANT: Durham, L.Kathryn
APPLICANT: Friedman, David L.
APPLICANT: Herath, Herath Mudiyanselage Athula Chandrasiri
APPLICANT: Kimmel, Lida H.
APPLICANT: Kajesh Bhikhu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
29.8%; Score 31; DB 9; Length 14;
Best Local Similarity 50.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 1; Mismatches 5; Indel8
                                                                                                                                                                                           Sequence 39, Application US/09826290
Patent No. US20020164668A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Potter, David M.
Rohlff, Christian
Silber, B. Michael
Stiger, Thomas R.
Sunderland, P. Trey
Townsend, Robert Reid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9 DGDAITMRNVTD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2 DGDTIIFSNVQE 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: homo sapien
                                   :| || ||
3 LPAHAADG 10
3 VPVHAQDG 10
                                                                                                                                                                      US-09-826-290-39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-826-290-39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     원
ò
                                                                                                                                  US-10-468-543-13

Sequence 13, Application US/10468543

Sequence 13, Application US/10468543

Sequence 13, Application No. US20040091938A1

GENERAL INFORMATION:

APPLICANT: Irimura, Tatsuro

APPLICANT: Matsumoto, Mariko

APPLICANT: Yim, Mijung

APPLICANT: Yim, Mijung

APPLICANT: Yim, Mijung

TILE OF INVENTYION: Lectins for Analyzing Sugar Chains and Method of Using the Same

FILE REPERBNCE: 03-786

CURRENT APPLICATION NUMBER: US/10/468,543

CURRENT APPLICATION NUMBER: US 2001-044221

PRIOR APPLICATION NUMBER: US 2001-044221

PRIOR APPLICATION NUMBER: 3001-02

NUMBER OF SEQ ID NOS: 95

SOFTWARE: PatentIn version 3.1

SEQ ID NO 13

LENGTH: 11

MATERIAL DEATH: 11

LENGTH: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; OTHER INFORMATION: Generated from randomly recombinant DNA part of MAH. US-10-468-543-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 53, Application US/10256850

Sequence 53, Application US/10256850

Publication No. USCO040024178A1

GENERAL INFORMATION:

APPLICANT: BLACK, MICHAEL T.

APPLICANT: BLACK, MICHAEL T.

APPLICANT: HUMPHRIES, LAFRED JOHN

APPLICANT: WOORE, KEITH JAMES

TITLE OF INVENTION: BACTERIAL SIGNAL PEPTIDASE INHIBITORS

FILE REFERENCE: P3237

CURRENT APPLICATION NUMBER: US/10/256,850

CURRENT APPLICATION NUMBER: 05/890,633

PRIOR FILING DATE: 2001-08-03

PRIOR FILING DATE: 2001-02-01

PRIOR FILING DATE: 1999-02-03

NUMBER OF SEQ ID NOS: 64

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 53

LENGHH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 29.8%; Score 31; DB 15; Length 11; Best Local Similarity 62.5%; Pred. No. 2.4e+02; Matches 5; Conservative 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 29.8%; Score 31; DB 15; Length 13; Best Local Similarity 62.5%; Pred. No. 3e+02; Matches 5; Conservative 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       i, OTHER INFORMATION: Intermediate peptide resin
US-10-256-850-53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2 VVPVHAQD 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2 VMPLHLOD 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -10-256-850-53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE:
                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
```

ö

```
Search completed: June 20, 2005, 15:55:13 Job time : 54.45 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Stiger, ..., APPLICANT: Stiger, ..., APPLICANT: Sunderland, P. Trey, APPLICANT: Sunderland, P. Trey, APPLICANT: Townsend, Robert Reid, APPLICANT: White, Frost APPLICANT: Whilden, Stephen A. TITLE OF INVENTION: Uses Therefor, Including Diagnosis and Treatment of TITLE OF INVENTION: Uses Therefor, Including Diagnosis and Treatment of TITLE OF INVENTION: Uses Therefor, Including Diagnosis and Treatment of TITLE OF INVENTION: Uses Therefor, Including Diagnosis and Treatment of TITLE OF INVENTION: USES: 2001-04-30
CURRENT APPLICATION NUMBER: US (0)94,504
PRIOR APPLICATION NUMBER: US 60/194,504
PRIOR PILING DATE: 2000-11-28
PRIOR PILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 492
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 415
TENGTH: 14
                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
APPLICANT: Durham, L.Kathryn
APPLICANT: Friedman, David L.
APPLICANT: Friedman, David L.
APPLICANT: Kimmel, Lida H.
APPLICANT: Kimmel, Lida H.
APPLICANT: Kimmel, Lida H.
APPLICANT: Portext, Rajesh Bhikhu
APPLICANT: Pottext, Rajesh Bhikhu
APPLICANT: Rohlff, Christian
APPLICANT: Rohlff, Christian
APPLICANT: Stiger, Thomas R.
APPLICANT: Suderland, P. Trey
APPLICANT: White, Frost
APPLICANT: White, Frost
APPLICANT: White, Robert Reid
APPLICANT: White, Robert Reid
APPLICANT: White, Robert Reid
                                                                                                                                                                                                                                                                                                                                    29.8%; Score 31; DB 9; Length 14; 50.0%; Pred. No. 3.3e+02; ive 1; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           29.8%; Score 31; DB 9; Length 14; ilarity 50.0%; Pred. No. 3.3e+02; Conservative 1; Mismatches 5; Indels
CURRENT FILING DATE: 2001-04-30
PRIOR APPLICATION NUMBER: US 60/194,504
PRIOR FILING DATE: 2000-04-03
PRIOR APPLICATION NUMBER: US 60/253,647
PRIOR FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 492
SOFTWARE: FastSEQ for Windows Version 4.0
ENGTH: 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 415, Application US/09826290 Patent No. US20020164668A1
                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 50.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                          9 DGDAITMRNVTD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9 DGDAITMRNVTD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 DGDTIIFSNVQE 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 DGDTIIFSNVQE 13
                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
Matches 6; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 14
US-09-826-290-415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-264-309-190
                                                                                                                                                                                                                                                                                  US-09-826-290-61
                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
```

; Sequence 190, Application US/10264309 ; Publication No. US20040022794A1 ; GENERAL INFORMATION: ; APPLICANT: DURHAM, L. KATHRYN

```
TITLE OF INVENTION: NUCLEIC ACID MOLECULES, POLYPEPTIDES AND USES THEREFOR,
TITLE OF INVENTION: NUCLEIC ACID MOLECULES, POLYPEPTIDES AND USES THEREFOR,
TITLE OF INVENTION: NUCLUDING DIAGNOSIS AND TREATMENT OF ALZHEIMER'S DISEASE
CURRENT APPLICATION NUMBER: US/10/264,309
CURRENT FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 491
SEQ ID NO SEQ ID NOS: 491
SEQ ID NO SEQ ID NOS: 491
SEQ ID NO SEQ ID NOS: 491
LENGTH: 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29.8%; Score 31; DB 15; Length 14; 50.0%; Pred. No. 3.3e+02; tive 1; Mismatches 5; Indels
                                                                            SILBER, B. MICHAEL
SNYDER, PETER J.
SOARES, HOLLY D.
STICER, THOMAS R.
SUNDERLAND P. TREY
TOWNSEND, ROBERT R.
WHITE, W. FROST
WILLIAMS, STEPHEN A.
                                      DAVID M.
CHRISTIAN
LIDA H.
RAJESH B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 29.8
Best Local Similarity 50.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9 DGDAITMRNVTD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 DGDTIIFSNVQE 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Homo sapiens
US-10-264-309-190
                                                                                                                                                                  APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
```

THIS PAGE BLANK (USPTO)

```
Tue Jun 21 05:54:37 2005
```

```
111, Appl
33, Appl
30, Appl
28, Appl
31, Appl
34, Appl
42, Appl
244, App
244, App
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                     June 20, 2005, 14:04:11; Search time 16.15 Seconds (without alignments) 92.445 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sednence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1
Sequence 1
Sequence 2
Sequence 6
Sequence 1
Sequence 1
Sequence 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-142-524D-11

US-08-467-023-33

US-09-142-524D-29

US-09-142-524D-28

US-09-142-524D-31

US-08-467-023-33

US-08-467-023-34

US-09-142-524D-31

US-09-142-524D-31

US-09-142-524D-31

US-09-142-524D-31

US-09-142-524D-31

US-09-143-244

US-09-112-549-24

US-09-112-549-525

US-08-437-841-12

US-08-437-841-12

US-08-437-841-12

US-08-437-841-12

US-08-437-841-12

US-08-437-841-12

US-08-437-841-12

US-08-437-841-12

US-08-437-841-12

US-08-436-149-8

US-08-436-149-8

US-08-936-621-12

US-08-936-621-12
                                                                                                                                                                                                                                                                                                                                                     Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-735-716-12
US-08-555-568B-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     L-US95-09464-12
-09-490-702B-65
                                                                                                                                                                                                                                                                                                                      513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                          OM protein - protein search, using sw model
                                                                                                                                                                                   US-09-202-464-10
102
1 IFSKNLNIKLNMPLYIAGNK 20
                                                                                                                                                                                                                                                               BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length
                 Copyright
                                                                                                                                                                                                                                                                                                                                                                                            Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

                                                                                                                                                                                     Title:
Perfect score:
                                                                                                                                                                                                                                                               Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score
                                                                                                                                                                                                                            Sequence:
                                                                                                                                                                                                                                                                                                                      Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Database
                                                                                                             Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š.
```

		•													
00000000000000000000000000000000000000	20222222222222222222222222222222222222	20000000000000000000000000000000000000	1111122111 2111111111111111111111111111	W 4 W 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		660000000000000000000000000000000000000	-519 -223 -12 -927 180 -12 595 -0806 9-1 -419 -0618 -11 -485 -6478 -11 -793 -331 -11 -564 -972 -77 -177 -093 -13 -177 -093 -13 -177 -093 -13 -177 -093 -13 -177 -093 -13 -177 -093 -13 -177 -093 -13 -176 -196 -196 -196 -196 -196 -196 -196 -19	1-12 9-12 9-12 1-11 1-13 1-13 1-13 1-13 1-13 1-13 1		Sequence Seq	Sequence Seq	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12, Appl 12, Appl 11, Appl 11, Appl 11, Appl 11, Appl 11, Appl 77, Appl 2483, Ap 131, Appl 131, Appl 43, Appl 131, Appl 43, Appl 43, Appl 56, Appl 6, Appl 81, Appl 8		
						ALIGN	ALIGNMENTS								
RESULT 1 Sequence 11, Application US/09142524D Fatent No. 6719976 GENERAL INFORMATION: APPLICANT: Sone, Toshio APPLICANT: Kume, Akinori APPLICANT: Dairiki, Kazuo APPLICANT: Tamma, Akiko APPLICANT: Manma, Akiko TITLE OF INVENTION: Peptide-Based Im FILE REFRENCE: SPO-103 CURRENT APPLICATION NUMBER: US/09/14; CURRENT FILING DATE: 1998-09-09 FRIOR FILING DATE: 1998-09-09 NUMBER OF SEQ ID NOS: 174 SOFTWARE: Patentin version 3.1 SEQ ID NO 11 LENGTH: 20 TYPE: PRT ORCANISM: CTYPtomeria japonica US-09-142-524D-11	-524D524D- NO. 67 INFOF PANT: ANT: ANT: ANT: ANT: INFOF PANT: I	ULT 1 09-142-524D-11 equence 11, Application atent No. 6719976 ENERAL INFORMATION: APPLICANT: Sone, Toshio APPLICANT: Kume, Akino APPLICANT: Iwama, Akino APPLICANT: Women, Rohuo TITLE OF INVENTION: Pep FILE REFERENCE: SPO-103 CURRENT APPLICATION NUMBE FRIOR APPLICATION NUMBE ONTANTALING DATE: 1997 CURRENT APPLICATION NUMBE FRIOR APPLICATION NUMBE FRIOR APPLICATION NUMBE FRIOR APPLICATION NUMBE FRIOR APPLICATION NUMBE ON ON 11 LENGTH: 30 CONTANTALING DATE: 1941 APPLICATION NUMBE FRIOR APPLICATION NUMBE FRIOR APPLICATION NUMBE FRIOR APPLICATION NUMBE ON ON 11 LENGTH: 30 CONTANTALING DATE: 1947 APPLICATION NUMBE FRIOR APPLICATION NUMBE FRIOR APPLICATION NUMBE ON ON 11 LENGTH: 30 CONTANTALING DATE: 1947 APPLICATION NUMBE APPLICATION NUMBE FRIOR APPLICATION NUMBE ON ON 11 LENGTH: 30 CONTANTALING DATE: 1947 APPLICATION NUMBE APPLICATI	ULT 1 199-142-524D-11 199-142-524D-11 199-142-524D 199-192-524D 199-192-524D	on US/09142 to nori dazuo liko uuke pptide-Base pptide-Base pptide-Base pptide-Base 1998-09-09 1998-09-09 174 rsion 3.1	9142 Base 19-05 17-06 11-11	9142524D Based Immunoth US/09/142,524D 9-09 T/JP97/00740 0	noche 524D 40	rapeut:	ic Agen	t for		Treating Allergic	9 A.I.	lergi	Disea
Query Match Best Local Matches 2 Qy 1 Db 1	cal Sir cal Sir 20; 1 I	표—교	L vat	100.0%; 100.0%; ive PLYIAGN	GNK GNK	Score Pred. ; Mism 20	ore 102; ed. No. 7 Mismatche	DB 4; .8e-11 s 0	Length 20 ; Indels	h 20	ő	Gaps	o.	:0	
RESULT 2 US-08-467-023-33 US-08-467-023-33 Sequence 33, Application US/08467023 Patent No. 6090386 GREAL INFORMATION:	-023-3 33, 40.60	Applica 90386 RMATION	ation U	US/08	8467										

APPLICANT: Giffeth, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bollock, Joanne;
APPLICANT: Garman, Richard D;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261

```
GENERAL INFORMATION:
GURRENT REPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
FRIOR APPLICATION NUMBER: PCT/JP97/00740
FRIOR APPLICATION OF SEQ ID NOS: 174
GENERAL SEQ ID NOS: 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Mama, Akiko
APPLICANT: Kino, Kohsuke
APPLICANT: Kino, Kohsuke
TITLE REPERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR PLING DATE: 1997-03-10
                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .;
0
                                   ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 57.8%; Score 59; DB 4; Length 15;
73.3%; Pred. No. 0.0013; Lindels
                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; LOCATION: (1). (15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 14 US-09-142-524D-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; LOCATION: (1). [(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 16
US-09-142-524D-30
Best Local Similarity 73.3%; Pred. No. 0.00088; Matches 11; Conservative 2; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 28, Application US/09142524D
Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                           Sequence 30, Application US/09142524D Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
                                                                                                                                            1 IFSKNLNIKLNMPLY 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MNIKLKMPMYIAGYK 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6 LNIKLNMPLYIAGNK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 73.33
Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                 US-09-142-524D-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-142-524D-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 28
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
                                                                                                        ò
                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 29, Application US/09142524D

Sequence 29, Application US/09142524D

Batent No. 6719976

GENERAL INFORMATION:

APPLICANT: Rune, Akinori

APPLICANT: Name, Akinori

APPLICANT: Name, Akinori

APPLICANT: Name, Akino

FILE REFERENCE: SPO-103

CURRENT APPLICATION NUMBER: US/09/142,524D

CURRENT APPLICATION NUMBER: PCT/JP97/00740

PRIOR PILING DATE: 1998-09-09

PRIOR PILING DATE: 1997-03-10

NUMBER OF SEQ ID NOS: 174

SOFTWARE: PatentIn version 3.1

SEQ ID NO 29

LUMBER OF SEQ ID NOS: 174

SEQ ID NO 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     75.5%; Score 77; DB 3; Length 20; 75.0%; Pred. No. 1.5e-06; tive 2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 4; Length 15;
                                                                                                                                                                                                                       COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM:
COMPUTER: IBM PC compatible
OPERATING SYSTEM:
COMPUTER: Date H. 10, Version #1.25
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: Unne 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REGISTRATION NUMBER: 38,872
REGISTRATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFAX: (617) 227-7400
TELEFAX: (617) 227-7400
TELEFAX: (617) 227-7401
                 ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc. STREET: 610 Lincoln St CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:

NAME/KEY: MISC_FEATURE

LOCATION: (1)...(15)

OTHER INFORMATION: Cryjl peptide, Figure 1, US-09-142-524D-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               58.8%; Score 60;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 IFSKNLNIKLNMPLYIAGNK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 75.5%
Best Local Similarity 75.0%
Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: peptide FRAGMENT TYPE: internal
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           amino acid
                                                                                                                                                                         USA
                                                                                                                                                                                                         02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-142-524D-29
                                                                                                 CITY: Wa
STATE: M.
COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-467-023-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              음
```

```
Sequence 34, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                  TYPE: PRT ORGANISM: Cryptomeria japonica FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 77.6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12 MPLYIAGNK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 MPMYIAGYK 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MA
USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: US
ZIP: 02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-467-023-34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                         Gaps
                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                          APPLICANT: Yening, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Bowers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESSEDE: Immiri-
 38.2%; Score 39; DB 4; Length 15; 80.0%; Pred. No. 3.5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   38.2%; Score 39; DB 3; Length 20; 80.0%; Pred. No. 4.9; 1; Mismatches 1; Indels
                                     1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc
STREET: 610 Lincoln Sť
CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CIP: 0215 USA COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION DATA:
APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGRY INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,972
REFERENCE DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION: INFORMATION:
                                       1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; Sequence 31, Application US/09142524D
                                                                                                                                                                                                         Sequence 32, Application US/08467023

Patent No. 6090386

GENERAL INFORMATION:

APPLICANT: Griffeth, Irwin J.;

APPLICANT: Bollock, Joanne;

APPLICANT: Bold, Julian F.;
                                                                                                                                                                                                                                                                  Griffeth, Irwin J.;
Pollock, Joanne;
Bond, Julian F.;
Garman, Richard D;
Kuo, Mei-Chang;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: (617) 227-7400
TELEPX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 32:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
Query Match 38.2
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                           1 IFSKNLNIKL 10
                                                                                             1 IFSKNLNIKL 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11 IFSGNMNIKL 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -09-142-524D-31
                                                                                                                                                                                           US-08-467-023-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-467-023-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STATE:
                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
```

```
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Town Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR PILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 31
SEQ ID NO 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Pollock, Joanne; APPLICANT: Pollock, Joanne; APPLICANT: Pollock, Joanne; APPLICANT: Bond, Julian F.; APPLICANT: Garman, Richard D; APPLICANT: Garman, Richard D; APPLICANT: Kuo, Mei-Chang; APPLICANT: Reune; Andrew; APPLICANT: Brauer, Andrew; APPLICANT: Exley, Mark A.; APPLICANT: CHIVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immulcogic Pharmaceutical Corporation, Inc. STREET: 610 Lincoln St
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   37.3%; Score 38; DB 4; Length 15; 77.9%; Pred. No. 5.2; tive 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION 1424
PRIOR APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTONNEY/AGENT INPORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
```

```
ó
                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                              Sequence 42, Application US/09402401C

| Batent No. 6569677
| Fatent No. 6569677
| General Information S.A.
| TITLE OF INVENTION: Modified adenoviral fiber and target adenoviruses
| TITLE OF INVENTION: Modified adenoviral fiber and target adenoviruses
| TITLE OF INVENTION: Wolfied adenoviral fiber and target adenoviruses
| TITLE OF INVENTION: WORBER: US/09/402,401C
| CURRENT FILING DATE: 1999-10-04
| PRIOR PLICATION NUMBER: WO 98 44121
| PRIOR PLICATION DATE: 1998-04-02
| NUMBER OF SEQ ID NOS: 46
| SOFTWARE: Patentin Ver. 2.2
| LENGTH: 19
                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Gaps
                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 37; DB 4; Length 19;
Pred. No. 10;
3; Mismatches 3; Indels
                                                                                                                                                                                                           Score 38; DB 3; Length 20;
Pred. No. 7.2;
1; Mismatches 1; Indels
    025.6 USD2 (IMI-028CPD2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; TYPE: PRT
; ORGANISM: Ad3 fiber Mastadenovirus
US-09-402-401C-42
REFERENCE/DOCKET NUMBER: 025.
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
                                                                                                                                                                                                              37.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 50.0%;
Matches 6; Conservative
                                                                                                                                                                                                         37.3
Best Local Similarity 77.6
Matches 7; Conservative
                                                                                                                TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4 KNLNIKLNMPLY 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6 KNKAVSINVELY 17
                                                                                                                                                                                                                                                                                            ||:|||| |
2 MPMYIAGYK 10
                                                                                                                                                                                                                                                                         12 MPLYIAGNK 20
                                                                                                                                                                                                                                                                                                                                                                        US-09-402-401C-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-149-476-714
                                                                                                                                                                               US-08-467-023-34
                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
```

```
R FILING DATE: 1997-05-23
R APPLICATION NUMBER: 60/047,592
R FILING DATE: 1997-05-23
A PPLICATION NUMBER: 60/047,581
R FILING DATE: 1997-05-23
R APPLICATION NUMBER: 60/047,584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 60/047,598 FILING DATE: 1997-05-23 APPLICATION NUMBER: 60/047,613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 60/043,314
FILING DATE: 1997-04-11
APPLICATION NUMBER: 60/043,569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 60/043,669
FILING DATE: 1997-04-11
APPLICATION NUMBER: 60/043,312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 1997-04-11
APPLICATION NUMBER: 60/043,315
FILING DATE: 1997-04-11
APPLICATION NUMBER: 60/048,974
                                                                                                                           APPLICATION NUMBER: 60/047,615
FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,597
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/043,580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 1997-04-11
APPLICATION NUMBER: 60/043,674
FILING DATE: 1997-04-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 1997-04-11
APPLICATION NUMBER: 60/043,672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 60/047,583
FILING DATE: 1997-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 60/047,612
FILING DATE: 1997-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 1997-04-11
APPLICATION NUMBER: 60/043,568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 60/043,311
FILING DATE: 1997-04-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 60/043,313
                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 60/047,502
                                                                                                                                                                                                                                                                                                                                               FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 60/047,617
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       60/047,618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 60/047,500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            60/047,492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LICATION NUMBER: 60/047,582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              60/047,632
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 60/047,601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 60/043,671
                                                                                       FILING DATE: 1997-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 1997-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 1997-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 1997-05-23 APPLICATION NUMBER: 60/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 1997-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 1997-04-11
                                                                                                                                                                                                                                                                     FILING DATE: 1997-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 1997-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 1997-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 1997-04-11
FILING DATE: 1997-03-07 APPLICATION NUMBER: 60/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1997-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 1997-04-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 1997-0
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EARLIER PEARLIER PEAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EARLIER I
EARLIER I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EARLIER
EARLIER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EARLIER
EARLIER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EARLIER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EARLIER
```

60/047,501

```
FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,631
FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,845
FILING DATE: 1997-08-22
FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,892
APPLICATION NUMBER: 60/057,761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A APPLICATION NUMBER: 60/056,880
R FILING DATE: 1997-08-22
R APPLICATION NUMBER: 60/056,894
R FILING DATE: 1997-08-22
R PELING DATE: 1997-08-22
R FILING DATE: 1997-08-22
R APPLICATION NUMBER: 60/056,911
                                             APPLICATION NUMBER: 60/056,877
FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,889
FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,893
                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 60/056,882
TILING DATE: 1997-08-22
PELICATION NUMBER: 60/056,637
TILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,903
                                                                                                                                                                                                                                          FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,878
FILING DATE: 1997-08-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NPPLICATION NUMBER: 60/056,910
1111NG DATE: 1997-08-22
NPPLICATION NUMBER: 60/056,864
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,599
FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,588
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,590
FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,594
                                                                                                                                                                                    FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,630
                                                                                                                                                                                                                                                                                                                         APLICATION NUMBER: 60/056,662 ILING DATE: 1997-08-22
                                                                                                                                                                                                                                                                                                                                                                               PPLICATION NUMBER: 60/056,872 ILING DATE: 1997-08-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ILING DATE: 1997-08-22
PPLICATION NUMBER: 60/056,874
ILING DATE: 1997-08-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 1997-05-23
APPLICATION UNDBER: 60/047,589
APPLICATION UNDBER: 60/047,593
APPLICATION NUMBER: 60/047,593
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,879
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/047,595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ILING DATE: 1997-08-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 1997-04-11
BARLIER BARLIER BARLIER BARLIER BARLIER BEARLIER BEARLIER
```

```
| SARLIER PELING ONT: 1399-06-3
| BARLIER PELING ONT: 1399-06-32
| BARLIER PERING ONT: 1399-06-32
| BA
```

```
Query Match
Best Local Similarity 55.6%;
Matches 5; Conservative 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 55.0
Local Si Conservative
                   | LENGTH: 13
| TYPE: PRT
| ORGANISM: Homo sapiens
| US-09-461-325-525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
CORGANISM: Homo sapiens
US-10-012-542-525
                                                                                                                                                                                                                                                    3 İFAKHLSVK 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ||:|:|:|
3 IFAKHLSVK 11
                                                                                                                                                                                                               1 IFSKNLNIK 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 IFSKNLNIK 9
                                                                                                                                                                                                                                                                                                                                       US-10-012-542-525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-115-123-525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 525
    SEQ ID NO 525
                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                    요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                       .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
0
                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                     APPLICANT: Order L.
APPLICANT: Adegari, Robert L.
APPLICANT: Adegari, Ramin
APPLICANT: Adegari, Ramin
APPLICANT: Madegari, Linda
APPLICANT: Madegari, Linda
APPLICANT: Harada, John
APPLICANT: Goldberg, Robert B.
APPLICANT: Goldberg, Robert B.
APPLICANT: Goldberg, Robert B.
TITLE OF INVENITON: Development in Plants
TITLE OF INVENITON: Development in Plants
FILE REFERENCE: 023070-08612018
CURRENT APPLICATION NUMBER: US/09/812,283
CURRENT APPLICATION NUMBER: 05177,249
PRIOR FILING DATE: 1998-10-22
PRIOR FILING DATE: 1998-10-22
PRIOR FILING DATE: 1998-10-22
NUMBER OF SEQ ID NOS: 324
SEQ ID NO 244
LENGTH: 18
                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .
.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30.4%; Score 31; DB 4; Length 18; 35.7%; Pred. No. 1e+02;
                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: 94 Human Secreted Proteins
FILE REFERENCE: P20.2941
CURRENT APPLICATION NUMBER: US/09/461,325A
CURRENT FILING DATE: 1999-12-14
CURRENT FILING DATE: 1999-06-15
EARLIER FILING DATE: 1999-06-15
BARLIER RILING DATE: 1999-06-15
BARLIER APPLICATION NUMBER: 60/089,507
EARLIER APPLICATION NUMBER: 60/089,509
EARLIER APPLICATION NUMBER: 60/089,510
EARLIER FILING DATE: 1998-06-16
EARLIER FILING DATE: 1998-06-22
EARLIER FILING DATE: 1998-06-22
EARLIER FILING DATE: 1998-06-22
NUMBER: OF SEQ ID NOS: 532
SOFTWARE: PATENTIN VET. 2.0
  Pred. No. 1e+02;
                       5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 525, Application US/09461325A Patent No. 6475753
                                                                                                                                                                                                         Sequence 244, Application US/09812283 Patent No. 6828477
35.78;
                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Fischer, Robert L.
                                                                7 NIKLNMPLYIAGNK 20
                                                                                        |:| ::|:|
1 NLKNHLPIYYLINR 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 7 NIKLNMPLYIAGNK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |:| ::|:|
1 NLKNHLPIYYLINR 14
  Best Local Similarity 35.7
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity 35.7
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; TYPE: PRT
; ORGANISM: Arabidopsis sp.
US-09-812-283-244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 13
US-09-461-325-525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                   ò
                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
```

Search completed: June 20, 2005, 14:22:15 Job time : 17.15 secs

7

THIS PAGE BLANK (USPTO)

```
June 20, 2005, 14:04:11; Search time 16.15 Seconds (without alignments) 92.445 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 40,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                             196327
                                                                                                                                                                                                                                                                                                                                                                                                         Issued Patents AA:*

(cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
(cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
(cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
(cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-467-023-40
US-09-142-554D-43
US-09-142-524D-44
US-09-142-524D-44
US-09-142-524D-44
US-09-106-568E-91
US-08-467-023-39
US-08-467-033-36
US-08-467-033-41
US-08-467-366
US-08-467-366
US-08-467-344A-366
US-08-467-344A-248
US-09-467-344B-248
US-09-542-615A-248
US-09-542-615A-248
US-09-542-615A-248
US-09-542-615A-248
US-09-542-615A-248
US-09-542-615A-248
US-09-642-615A-248
                                                                                                                                                                                                                                                                          Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                               513545 seqs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                    protein search, using sw model
                                                                                                                                                        104
1 GVVPVHAQDGDAITMRNVTD 20
                                                                                                                                                                                                   BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                         US-09-202-464-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query
Match Length
                                                                                                                                                                                                                                                                                                        seq length: 0
seq length: 20
                                                                                                                                          Title:
Perfect score:
                                                                                                                                                                                                     Scoring table:
                                                                                                                                                                                                                                                                                                       Minimum DB
Maximum DB
                                                       OM protein
                                                                                                                                                                                                                                                                                                                                                                                                            Database :
                                                                                                                                                                          Sequence:
                                                                                                                                                                                                                                               Searched:
                                                                                    Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Result
```

28	28	26.9		4	US-09-512-563C-43	Sequence 43, Ap	Appl
29	28	26.9		4	US-08-845-381E-48	Sequence 48, Ap	ppl
30	28	26.9		4	US-09-612-402B-3	Sequence 3, Apr	ild
31	27	26.0		-	US-07-781-254A-22	22	ppl
32	27	26.0		~	US-08-480-473B-17	7	pp1
33	27	26.0		ო	US-08-915-213-17	17	ppl
34	27	26.0		m	US-09-235-217-17	17	ppl
35	27	26.0	16	S	PCT-US96-10251-17	11	ppl
36	27	26.0		m	US-09-371-710-2	'n	pli
37	27	26.0		m	US-09-648-386-2	0	pli
38	27	26.0		~	US-08-152-721B-5	'n	pli
39	26.5	25.5		ч	US-08-212-433A-36	36	ppl
40	26.5	25.5		ო	US-08-716-256-36	36	ppl
41	26.5	25.5		ഗ	PCT-US95-03239-36	Sequence 36, Appl	ppl
42	26	25.0		-	US-08-215-805A-28	28	ppl
43	26	25.0		٣	US-09-433-598-15	15,	Appl
44	26	25.0	11	4	US-09-848-838A-15	15,	ppl
45	26	25.0		~	US-08-487-675-1	Sequence 1, Appli	pli
					ALIGNMENTS		
RESULT	RESULT 1						

```
APPLICANT: Giffeth, Irwin J.;
APPLICANT: Pollock, Joanne,
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mai-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIPICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane B. Remillard
REGISTRATION UNBER: 38,872
REFERENCE DOCKET NUMBER: 38,872
TELECOMUNICATION:
TELECOMUNICATION:
                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: ImmuLogic Pharmaceutical Corporation,
                   Sequence 40, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO. 40:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                 STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 20 amino acids TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     peptide
internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                          MA
USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: line
MOLECULE TYPE: I
FRAGMENT TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  02154
US-08-467-023-40
```

Sequence

Sequence

```
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Mama, Akinori
APPLICANT: Mama, Akinori
APPLICANT: Mama, Akiko
APPLICANT: Mama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR FILING DATE: 1998-09-09
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 42
                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                               ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
                                                                                                  Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 15;
                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc. STREET: 610 Lincoln St CITY: Waltham
                                                                            DB 4; Leas.
.. 0.0086;
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 30 US-09-142-524D-44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCATION: (1). (15) ... OTHER INFORMATION: Cryjl peptide, Figure 1, Row 28 US-09-142-524D-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 43; DB 4;
Pred. No. 0.66;
0; Mismatches
                                                                                                                                                                  Mismatches
                                                                                                  Score 54;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 42, Application US/09142524D Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 39, Application US/08467023;
Patent No. 6090386;
GENERAL INFORMATION:
APPLICANT: Griffeth Irwin J.;
APPLICANT: Bollock, Joanne;
APPLICANT: Bold, Julian F.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Pollock, Joanne,
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                  51.9%;
60.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 80.0%;
Matches 8; Conservative
                                                                                                                                                                                                                              6 HAODGDAITMRNVTD 20
                                                                                                                                                                                                                                                                                     1 HPÓDGDÁLTLKTAÍN 15
                                                                      Ouery Match
Best Local Similarity 60.0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 GVVPVHAQDG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6 GVEPVHPQDG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: MISC_FEATURE LOCATION: (1). . (15)
                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-142-524D-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-467-023-39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-142-524D-44

| Sequence 44, Application US/09142524D |
| Sequence 47, Application: |
| APPLICANT: Sone, Toshio |
| APPLICANT: Nume, Akino |
| APPLICANT: Imma, Akino |
| APPLICANT: Imma, Akino |
| APPLICANT: Imma, Akino |
| TILLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea |
| TILLE OF INVENTION: Poptide-Based Immunotherapeutic Agent for Treating Allergic Disea |
| TILLE OF INVENTION NUMBER: US/09/142,524D |
| CURRENT APPLICATION NUMBER: PCT/JP97/00740 |
| PRIOR FILING DATE: 1997-03-10 |
| NUMBER OF SEQ ID NOS: 174 |
| SEQ ID NO 44 |
| LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Sone, Abio

APPLICANT: Mame, Akinori

APPLICANT: Iwama, Akinori

APPLICANT: Iwama, Akino

                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                      70.2%; Score 73; DB 3; Length 20; 65.0%; Pred. No. 6.8e-06; Live 3; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 59.6%; Score 62; DB 4; Length 15; Best Local Similarity 73.3%; Pred. No. 0.00037; Matches 11; Conservative 2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; LOCATION: (1). (15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 29
US-09-142-524D-43
                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 43, Application US/09142524D Patent No. 6719976
                                                                                                                                                                                               1 GVVPVHAQDGDAITMRNVTD 20
                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 GVVPVHAQDGDAITM 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 GVEPVHPQDGDALTL 15
                                                                                                  Best Local Similarity 65.0
Matches 13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (1). (15)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                           US-09-142-524D-43
            US-08-467-023-40
                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
```

```
Application US/08469260A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3 VPVHAQ 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |||||||
4 VPVHAQ 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JS-08-488-446-366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 91, Application US/09106568E

Patent No. 6455248

GENERAL INNORMATION:
APPLICANT: Bhattacharjee, J.
APPLICANT: Blattacherjee, Vasker
TITLE OF INVENTION: METHODS AND REAGENTS FOR DETECTING FUNGAL PATHOGENS IN TITLE OF INVENTION: METHODS AND REAGENTS FOR DETECTING FUNGAL PATHOGENS IN TITLE OF INVENTION: METHODS AND REAGENTS FOR DETECTING FUNGAL PATHOGENS IN TITLE OF INVENTION: METHODS AND REAGENTS FOR DETECTING FUNGAL PATHOGENS IN TITLE OF INVENTION: MUBBER: US/09/106,568E

CURRENT APPLICATION NUMBER: US/09/106,568E

CURRENT FILING DATE: 1998-06-29

PRIOR APPLICATION NUMBER: 08/650,809

PRIOR FILING DATE: 1997-06-20

NUMBER OF SEQ ID NOS: 160

SOFTWARE: MICROSOFT WORD 97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; OTHER INFORMATION: Polypeptide segment of ACVS_CEPAC shown in Figure 4.
US-09-106-568E-91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         35.6%; Score 37; DB 4; Length 19; 66.7%; Pred. No. 9.4; tive 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 3; Length 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2; Indels
                  MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane B. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEPHONE: (617) 227-7401
TELEPHONE: (617) 227-7401
TELEPHONE: CATALESTEISTICS:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   41.3%; Score 43; DB 3;
80.0%; Pred. No. 0.94;
tive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 91
LENGTH: 19
TYBE: PRESTREE
ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 20 amino acids TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 35.6
Best Local Similarity 66.7
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // MOLECULE TYPE: peptide
// FRACMENT TYPE: internal
US-08-467-023-39
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 GVVPVHAQDG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11 GVEPVHPQDG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3 VPVHAQDGD 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9 VPTHKODGE 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -09-106-568E-91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
```

US-08-469-260A-366

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
APPLICANT: JOHN N. SIMONS
APPLICANT: TAMI J. PILOT-MATIAS
APPLICANT: GEORGE J. DAWSON
APPLICANT: GEORGE G. SCHLAUDER
APPLICANT: GEORGE G. SCHLAUDER
APPLICANT: SURESH M. DESAY
APPLICANT: THOMAS P. LEARY
APPLICANT: THOMAS P. LEARY
APPLICANT: JAMES C. ERKER
APPLICANT: SIAR I. BUIJK
APPLICANT: SIAR I. BUIJK
APPLICANT: SISA K. MUSHAHWAR
TITLE OF INVENTION: REAGENTS AND METHODS FOR THEIR USE
NUMBER OF SEQUENCES: 716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30.8%; Score 32; DB 4; Length 16; 100.0%; Pred. No. 55; 0; Indels tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: US/08/469,260A
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: POREMBER; SISCILLA E.
REGISTAATION NUMBER: 33,207
REFERENCE/DOCKET NUMBER: 5527.PC.01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 70,937.6365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 366, Application US/08488446
Patent No. 6558898
GENERAL INFORMATION:
APPLICANT: JOHN N. SIMONS
APPLICANT: GEORGE J. DAWSON
APPLICANT: GEORGE G. SCHLAUDER
APPLICANT: GEORGE G. SCHLAUDER
APPLICANT: GEORGE G. SCHLAUDER
APPLICANT: THOMAS P. LEARY
APPLICANT: THOMAS P. LEARY
APPLICANT: JAMES C. SEKER
APPLICANT: JAMES C. SEKER
APPLICANT: SHERI L. BUIJK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/424,550
                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: ABBOTT LABORATORIES
STREET: 100 ABBOTT PARK ROAD
CITY: ABBOTT PARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: 708-938-2623
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 30.8
Best Local Similarity 100.
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             , MOLECULE TYPE: protein US-08-469-260A-366
                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
ADDRESSEE: ABBOTT LA
```

```
3 VPVHAQ 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4 VPVHAQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 10
US-08-424-550B-366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STATE: IL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .
0
APPLICANT: ISA K. MUSHAHWAR

TITLE OF INVENTION: NON-A, NON-B. NON-C, NON-D, NON-E HEPATITIS
TITLE OF INVENTION: REAGENTS AND METHODS FOR THEIR USE
NUMBER OF SEQUENCES: 716
CORRESPONDENCE ADBORT 1ABORATORIES D377/AP6D
STREET: 100 ABBOTT LABORATORIES D377/AP6D
CITY: ABBOTT PARK
STATE: 1L
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: 1BM PC COMPALIDLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/488,446
FILLIG DATE:
CARCIFICATION NUMBER: US/08/488,446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: JOHN N. SIMONS

TAMI J. PILOT-MATIAS
GEORGE J. DAWSON
GEORGE G. SCHLAUDER
SURESH M. DESAI
THOMAS P. LEARY
ANTHONS COUT WUERHOFF
JAMES C. ERKER
SHERI L. BUIJK
I.S. MUSHAHWAR
TITLE OF INVENTION: NON-A, NON-B. NON-D, NON-E HEPATITIS
REAGENTS AND METHODS FOR THEIR USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30.8%; Score 32; DB 4; Length 16; 100.0%; Pred. No. 55;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 716
CORRESPONDENCE ADDRESS:
ABDOTT LABORATORIES D377/AP6D
STREET: 100 ABBOTT PARK ROAD
CITY: ABBOTT PARK
COUTTY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFTCATION:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
PEDELICATION NUMBER: US/08/424,550
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: POREMBSKI, PRISCILLA E.
REGISTRATION NUMBER: 33,207.
REFERENCE/DOCKET NUMBER: 5527.PC.01
REPERENCE/DOCKET NUMBER: 5527.PC.01
REPORTANTION FOR SEQ 1D NO: 366:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 366, Application US/08467344A Patent No. 6586568 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity 100.
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: linear
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      amino acid
XGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3 VPVHAQ 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ||||||
4 VPVHAQ 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 9
US-08-467-344A-366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-488-446-366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
```

```
COMPUTER: IRM FC compactible
COMPUTER: PAPEL CALTON DATA;
FAPEL CALT
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Skelky, Yasir A.W.
APPLICANT: Henderson, Robert A.
APPLICANT: McNeill, Patricia D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                  NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immulogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
                                                                                                                                                                                                         CVERKATING SYSTEM: DC.DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION 1424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: Docember 6, 1994
ATTORNEY/AGRT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFRAX: (617) 227-7400
TELEFRAX: (617) 227-5941
  IITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILE REFERENCE: 210121.455C11
CURRENT APPLICATION NUMBER: US/09/643,597
CURRENT FILING DATE: 2000-08-21
SUUMBER OF SEQ ID NOS: 369
SOFTWARE: PastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 30;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-643-597-248
; Sequence 248, Application US/09643597
; Patent No. 6426072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Wang, Tongtong
Fan, Ligun
Kalos, Michael D.
Bangur, Chaitanya S.
Hosken, Nancy
Fanger, Gary R.
Li, Samuel X.
Wang, Aijun
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 28.8%;
Best Local Similarity 50.0%;
Matches 5; Conservative 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 4
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                                                                                                       ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11 DAITMRNVTD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 DALTLRTATN 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 248
LENGTH: 20
TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-467-023-41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 45, Application US/09142524D

Patent No. 6719976
GENERAL INFORMATION
APPLICANT: Rume, Akinori
APPLICANT: Name, Akinori
APPLICANT: Ivame, Akinori
APPLICANT: Ivame, Akinori
APPLICANT: Ivame, Akino
APPLICANT: Ivame, Akino
CURRENT FILE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR PILING DATE: 1998-09-09
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SSOFTWARE: PatentIn version 3.1
LENGTH: 15
                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .
                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Allergenic Proteins And Peptides From
                                                                                                                                                                                                                                          DB 4; Length 16; 55;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28.8%; Score 30; DB 4; Length 15; 50.0%; Pred. No. 1.1e+02; tive 3; Mismatches 2; Indels
                                                                                                                                                                                                                                                                               0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCATION: (1).7(15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 31
US-09-142-524D-45
                                                                                                                                                                                                                           30.8%; Scc. 100.0%; Pred. No. c. 0; Mismatches
  5527.PC.01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 41, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffeth, Irwin J.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cariffeth, Irwin J.;
Pollock, Joanne;
Bond, Julian F.;
Garman, Richard D;
Kuo, Mei-Chang;
Yeung, Siu-mei H.;
Brauer, Andrew;
Exley, Mark A.;
              TELECOMMUNICATION INFORMATION:
TELEPHONE: 708-937-6355
TELEPAX: 708-938-2623
INFORMATION FOR SEQ ID NO: 366: SEQUENCE CHARACTERISTICS:
LENGTH I 6 amino acids
TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Powers, Steven P
TITLE OF INVENTION: Allerger
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                    30.8
Best Local Similarity 100.
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 28.8
Best Local Similarity 50.0
Matches 5; Conservative
                                                                                                                                                       TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-424-550B-366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11 DAITMRNVTD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ||:|:|
| DALTLRTATN 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                               4 VPVHAQ 9
                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-142-524D-45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-467-023-41
                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           а
```

2 ETGDPVTLRLLDD 14

```
Search completed: June 20, 2005, 14:22:18
Job time : 17.15 secs
셤
                                                                                               .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                               0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 28.8%; Score 30; DB 4; Length 20; Best Local Similarity 38.5%; Pred. No. 1.6e+02; Matches 5; Conservative 4; Mismatches 4; Indels
                                          Query Match 28.8%; Score 30; DB 4; Length 20; Best Local Similarity 38.5%; Pred. No. 1.6e+02; Matches 5; Conservative 4; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 28.8%; Score 30; DB 4; Length 20; Best Local Similarity 38.5%; Pred. No. 1.6e+02; Matches 5; Conservative 4; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Wang, Tongtong
APPLICANT: Wang, Tongtong
APPLICANT: Wang, Liqun
APPLICANT: Falos, Michael D.
APPLICANT: Bangur. Chaitanya S.
APPLICANT: Bengur. Chaitanya S.
APPLICANT: Hower, Mancy A.
APPLICANT: Fanger, Gary R.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
FILE REFERENCE: 210121.455C8
CURRENT APPLICATION NUMBER: US/09/542,615A
CURRENT FILLNG DATE: 2000-04-14
NUMBER OF SEQ ID NOS: 350
SOFTWARE: PastSEQ for Windows Version 3.0
SEQ ID NO 248
LENGTH: 20
                                                                                                                                                                                                                      RESULT 14

US-09-480-884A-248

US-09-480-684A-248

Sequence 248, Application US/09480884A

Patent No. 648291

GENERAL INFORMATION:

APPLICANT: Wang, Tongtong

APPLICANT: Falos, Michael D.

APPLICANT: Falos, Michael D.

APPLICANT: Fanger, Gary R.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY

TITLE OF INVENTION: CAPPOINDS OF LUNG CANCER

FILE REFERENCE: 210121.455C6

CURRENT APPLICATION NUMBER: US/09/480,884A

CURRENT FILING DATE: 2001-08-27

NUMBER OF SEQ ID NOS: 330

SEQ ID NO 248

LENGTH. 20

LENGTH. 20

LENGTH. 20

LENGTH. 20

LENGTH. 20

LENGTH. 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 15
US-09-542-615A-248
; Sequence 248, Application US/09542615A
; Patent No. 6518256
                                                                                                                                             8 QDGDAITMRNVTD 20
                                                                                                                                                                      : || :|:| : |
2 ETGDPVTLRLLDD 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8 QDGDAITMRNVTD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            : || :|:| : |
2 ETGDPVTLRLLDD 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Homo sapiens
US-09-480-884A-248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
CRGANISM: Homo sapiens
US-09-542-615A-248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
APPLICANT: Wang, Tor
APPLICANT: Fan, Liq
APPLICANT: Kalos, Mi
APPLICANT: Bangur, M
US-09-643-597-248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                          음
```

8 QDGDAITMRNVTD 20 : | | : | : |

ò

us-09-202-464-18.rapb

```
June 20, 2005, 14:14:01; Search time 53.45 Seconds (without alignments) 143.678 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/USO7_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/USO7_PUBCOMB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/USO6_NEW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/USO6_NEW_PUB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/USO7_NEW_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/USO7_NEW_PUB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/USO8_NEW_PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
20: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
21: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
22: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    332641
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1714042 segs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                        - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                          1 DAITMRNVTDVWIDHNSLSD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                        BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                            US-09-202-464-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            seg length: 0
seg length: 20
                                                                                                                                                                                                                                                                                                            Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                        Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Minimum DB E
Maximum DB E
                                                                                                                        OM protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Database :
                                                                                                                                                                                                                                                                                                                                                                             Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Searched:
                                                                                                                                                                                      Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

					_	_						
		App]	App]	App]	Ä	Apr	A	App]	App]	App]	App]	App]
	_	45,	46,	47,	1876	211,	1072	32,	32,	33,	30,	30,
	Description	Sequence	Sequence	Seguence	Sequence 1876, Ap	Sequence	Sequence 41072, A	Seguence	Sequence 32, Appl	Sequence	Sequence	Sequence
	ID	US-10-354-240-45	US-10-354-240-46	US-10-354-240-47	US-10-225-567A-1876	US-10-473-127-211	JS-09-864-761-41072	US-10-011-095-32	US-10-010-667A-32	US-10-165-044-33	US-10-408-009-30	US-10-857-785-30
		14	14	14	14	16	6	14	14	14	15	16
	Match Length DB I	15	15	15	16	13	19	15	15	15	15	15
ئ ئ ئ	Match	57.9	54.2	43.9	37.4	34.6	33.6	32.7	32.7	32.7	32.7	32.7
	Score	62	28	47	40	37	36	35	35	35	35	35
11,000	No.		7	m	4	S	9	7	60	6	10	11

ö

Gaps

ö

Query Match 57.9%; Score 62; DB 14; Length 15; Best Local Similarity 60.0%; Pred. No. 0.0072; Matches 9; Conservative 4; Mismatches 2; Indels

30, A	equence 1745 equence 92, equence 92,	4 6 1 2 2 4 4 6 4 4 6 4 7 4 6 4 6 4 6 4 6 4 6 4 6	equence 42 equence 42 equence 42 equence 44	Sequence 440, App Sequence 105, App Sequence 105, App Sequence 105, App Sequence 105, App Sequence 105, App Sequence 105, App	equence 56 equence 47 equence 47 equence 45 equence 46 equence 19
16 US-10-856-109-30 17 US-10-753-195-33 17 US-10-752-421-30 17 US-10-750-262-32 15 US-10-432-422-88	14 US-10-225-267A-1 14 US-10-225-567A-1 10 US-09-995-529-92 11 US-09-995-62		14 US-10-283-073-451-4 10 US-09-793-451-4 14 US-10-283-722-4 14 US-10-283-722-4 15 US-10-283-093-4	15 US-10-281-903-44 10 US-09-793-451-10 10 US-09-793-451-40 14 US-10-283-722-10 14 US-10-283-722-40 15 US-10-283-903-10 15 US-10-283-903-10	16 US-10-205-50-70-71-71-71-71-71-71-71-71-71-71-71-71-71-
35 32.7 11 35 32.7 11	88 33 30.8 1 93 29.9 1 90 32 29.9 1	4 3 3 2 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2 2 2 2 2 3 2 2 3 3 2 3 3 3 3 3 3 3 3 3	28.0 28.0 28.0 28.0 28.0 28.0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

ALIGNMENTS

```
JOHENTAL INFORMATION:

JAPPLICANT: Sone, Toshio

APPLICANT: Kume, Akinori

APPLICANT: Kume, Akinori

APPLICANT: Iwama, Akiko

JATILE AND SONE, TOSHIO

APPLICANT: Kino, Kohsuke

JATILE REFERENCE: SPO-103D1

CURRENT APPLICATION NUMBER: US/10/354,240

CURRENT APPLICATION NUMBER: PCT/JP97/00740

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR FILING DATE: 1999-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: PatentIn version 3.1

TYPE: PRIOR FILING DATE: PATENTEN SEQ ID NO 45

SEQ ID NO 45

TYPE: PRIOR FILING DATE: PATENTEN SEQ ID NO 45

SEQ ID NO 45

TYPE: PRIOR FILING DATE: PATENTEN SEQ ID NO 45

SEQ ID NO 45

TYPE: PRIOR FILING DATE: PATENTEN SEQ ID NO 45

TYPE: PRIOR FILING DATE: PATENTEN SEQ ID NO 45

TYPE: PRIOR FILING DATE: PATENTEN SEQ ID NO 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: MISC_FEATURE

CCATION: (1)...(15)

OTHER INFORMATION: Cryjl peptide, Figure 1, Row 31

0S-10-354-240-45
US-10-354-240-45
Sequence 45, Application US/10354240
Publication No. US20030185847A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Cryptomeria japonica
```

```
Publication No. US2003011379841

Sequence 1876, Application US/10225567A

Publication No. US2003011379841

GENERAL INFORMATION:
APPLICANT: LifeSpan Biosciences
APPLICANT: Brown, Joseph P.
APPLICANT: Brumer, Glenna C.
APPLICANT: Rough, Christine L.
APPLICANT: Bring NATIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
FILE OF INVENTION UMBER: US/10/225,567A
CURRENT FILING DATE: 2000-1-12-19
PRIOR APPLICATION NUMBER: 60/257,144
PRIOR FILING DATE: 2000-12-19
NUMBER OF SEQ ID NOS: 2292
SOFTWARE: Patentin version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                ö
                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 40; DB 14; Length 16;
Pred. No. 22;
2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                34.6%; Score 37; DB 16; Length 13;
                   DB 14; Length 15;
                                                                1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: TRANSLATIONAL PROFILING
FILE REFERENCE: 08191-026M01.

CURRENT PEDLICATION NUMBER: US/10/473,127

CURRENT PEDLICATION NUMBER: US/10/473,127

CURRENT FILING DATE: 2003-09-26

PRIOR APPLICATION NUMBER: 60/292,495

PRIOR FILING DATE: 2001-03-28

PRIOR FILING DATE: 2001-05-21

PRIOR FILING DATE: 2001-05-310,801

PRIOR FILING DATE: 2001-09-08

PRIOR FILING DATE: 2001-09-08

PRIOR FILING DATE: 2001-10-01

PRIOR FILING DATE: 2001-10-01

PRIOR FILING DATE: 2001-12-04

PRIOR FILING DATE: 2002-02-00

NUMBER OF SEQ ID NOS: 2041
                   Score 47; DB 1
Pred. No. 1.6;
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-473-127-211

; Sequence 211, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
                   43.9%;
                 Query Match
Best Local Similarity 70.0
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 54.5
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4 TMRNVTDVWID 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 TIENATDIWQD 12
                                                                                                                                           11 VWIDHNSLSD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-225-567A-1876
                                                                                                                                                                                                                                                             US-10-225-567A-1876
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-473-127-211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 1876
LENGTH: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                    ò
                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 47. Application US/10354240

| Sequence 47. Application No. US2030185847A1
| Sequence 47. Application No. US2030185847A1
| GENERAL INFORMATION:
| APPLICANT: Sone, Toshio
| APPLICANT: Mama, Akiko
| APPLICANT: Iwama, Akiko
| APPLICANT: Kino, Kobsuke
| APPLICANT: Kino, Kobsuke
| APPLICANT: Iwama, Akiko
| APPLICANT: Non-Septide-Based Immunotherapeutic Agent for Treating Allergic Disea
| FILE REFERENCE: SPO-103D1
| CURRENT PAPLICATION NUMBER: US/09-102
| PRIOR PILING DATE: 1998-09-09
| WINBER OF SEQ ID NOS: 174
| SOFTWARE: PatentIn version 3.1
| SEQ ID NO 47
| LENGTH: 15
                                                                                                                                                                                                                             APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Mama, Akinori
APPLICANT: Nama, Akiko
APPLICANT: Iwama, Akiko
ITILE REFERENCE: SPO-103D1
FILLE REFERENCE: SPO-103D1
FURENT APPLICATION NUMBER: US/10/354,240
FURENT FILING DATE: 2003-01-29
FRIOR APPLICATION NUMBER: PCT/VP97/00740
FRIOR APPLICATION NUMBER: US 09/142,524
FRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFWARE: Patentin version 3.1
SEQ ID NO 46
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          54.2%; Score 58; DB 14; Length 15; 60.0%; Pred. No. 0.031;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: MISC_FEATURE
CCATION: (1)...(15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 32
US-10-354-240-46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCATION: (1). (15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3; Mismatches
                                                                                                                                                                 Sequence 46, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 RNVTDVWIDHNSLSD 20
1 DAITMRNVTDVWIDH 15
                           ||:|:| |::||||
1 DALTLRTATNIWIDH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 60.0%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: MISC FEATURE
                                                                                                                                      US-10-354-240-46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 3
US-10-354-240-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
  ò
```

유 ð

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                              APPLICANT: Afar, Daniel
APPLICANT: Hubert, Rene S.
APPLICANT: Leong, Kahan
APPLICANT: Leong, Kahan
APPLICANT: Saffran, Douglas C.
APPLICANT: Saffran, Douglas C.
APPLICANT: Mitchell, Seve Chappell
APPLICANT: Mitchell, Seve Chappell
TITLE OF INVENTION: ANTIBODIES IMMUNOSPECIFIC FOR STEAPI (AS AMENDED)
FILE REFERENCE: 511582001610
CURRENT FILING DATE: 1090-12-06-01
PRIOR APPLICATION NUMBER: 09/323,873
PRIOR APPLICATION NUMBER: 60/087,520
PRIOR PILING DATE: 1998-06-01
PRIOR FILING DATE: 1998-06-01
PRIOR FILING DATE: 1998-06-01
PRIOR FILING DATE: 1998-06-10
NUMBER OF SEQ ID NOS: 32
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Hubert, Rene S.
APPLICANT: Hubert, Rene S.
APPLICANT: Hubert, Rahan
APPLICANT: Saffran, Arthur B.
APPLICANT: Saffran, Douglas C.
APPLICANT: Mitchell, Steve Chappell
TITE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
TITE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
FILE REFERENCE: 511582001601
CURRENT APPLICATION NUMBER: US/10/010,667A
CURRENT FILING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: 60/097,520
PRIOR APPLICATION NUMBER: 60/097,520
PRIOR PLLING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: 60/091,183
PRIOR FILING DATE: 1999-06-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                          ö
 ; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 4.1; OTHER INFORMATION: EST_HUMAN HIT: A1719171.1, EVALUE 4.00e-04 US-09-864-761-41072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 35; DB 14; Length 15; Pred. No. 1.3e+02; 2; Mismatches 3; Indels
                                                                      33.6%; Score 36; DB 9; Length 19;
50.0%; Pred. No. 1.1e+02;
tive 3; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 32, Application US/10010667A Publication No. US20030055217A1
                                                                                                                                                                                                                                                                 Sequence 32, Application US/10011095
Publication No. US20030045682A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            32.7%;
50.0%;
                                                                    Query Match
Best Local Similarity 50.0
Matches 6; Conservative
                                                                                                                                         2 AITMRNVTDVWI 13
                                                                                                                                                                 ::||| | :||
5 SLTMRTQTKLWI 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        :| | ||:|
6 QNKEDAWIEH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6 RNVTDVWIDH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Afar, Daniel APPLICANT: Hubert, Ren
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JS-10-010-667A-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-011-095-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO 32
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 8
                                                                                                                                                                            셤
                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                          ö
                     Gaps
                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: MAP TO ALL21585.13
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 2.8
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.6
OTHER INFORMATION: EXPRESSED IN PADLIT LIVER, SIGNAL = 3.7
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.6
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.5
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 3.5
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 3.5
                     1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
SEQ ID NO 41072
LENGTH: 19
60.0%; Pred. No. 52;
iive 3; Mismatches
Best Local Similarity 60.0
Matches 6; Conservative
                                                                        |::|||:|
1 VFLDHNALPD 10
                                                    11 VWIDHNSLSD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
```

ð 쉽

```
5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6 RNVTDVWIDH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   QNKEDAWIEH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6 RNVTDVWIDH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6 ONKEDAWIEH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Homo sapiens US-10-408-009-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-857-785-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 30
                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 33, Application US/10165044
Publication No. US20030149531A1
GENERAL INCORMATION:
APPLICANT: Agensy, Inc.
APPLICANT: Rene S. Hubert
APPLICANT: Bondlas Saffan
APPLICANT: Douglas Saffan
APPLICANT: Douglas Saffan
APPLICANT: Douglas Saffan
APPLICANT: Steven Chappell Mitchell
APPLICANT: Douglas Saffan
APPLICANT: Douglas Saffan
APPLICANT: Steven Chappell Mitchell
APPLICANT: Aya Jakobovits
TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
FILE REFERENCE: 51158-20016.02
CURRENT FILING DATE: 2002-06-06
FRIOR APPLICATION NUMBER: US 60/097,520
PRIOR APPLICATION NUMBER: US 60/091,183
PRIOR PILING DATE: 1999-06-01
PRIOR FILING DATE: 1999-06-01
PRIOR FILING DATE: 1999-12-06
PRIOR PILING DATE: 2000-12-06
PRIOR PILING DATE: 2000-12-06
PRIOR PILING DATE: 2000-12-06
PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRESE PRIOR PILING DATE: PRESE PRIOR PILING DATE: PRESE PRE
                                                                                                                                                                                                                                                                                                            ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 35; DB 14; Length 15;
Pred. No. 1.3e+02;
2; Mismatches 3; Indels
                                                                                                                                                                                                                                            Score 35; DB 14; Length 15;
Pred. No. 1.3e+02;
2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                               2; Mismatches
NUMBER OF SEQ ID NOS: 32
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 32
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-478-009-30
; Sequence 30, Application US/10408009
; Publication No. US20040072196A1
; GENERAL INFORMATION:
; APPLICANT: Daniel E. Afar
; APPLICANT: Arthur B. Raitano
; APPLICANT: Douglas C. Saffran
                                                                                                                                                                                                                                               32.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                32.7%;
Similarity 50.0%;
5; Conservative
                                                                                                                                                                                                                                            Query Match 32.7
Best Local Similarity 50.0
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                : | | | |: |
6 ONKEDAWIEH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 RNVTDVWIDH 15
                                                                                                                                                                                                                                                                                                                                                                                                               : | | | |: |
6 QNKEDAWIEH 15
                                                                                                                                                                                                                                                                                                                                                                            6 RNVTDVWIDH 15
                                                                                                                         ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-010-667A-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -10-165-044-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-165-044-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
```

셤

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-857-785-30
; Sequence 30, Application US/10857785
; Publication No. US20040219162A1
; GENERAL INFORMATION:
; APPLICANT: Daniel E. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Stephen C. Mitcheld
; TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
; FILE REFREENCES: 511582001607
; TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
; FILE REFREENCES: 511582001607
; CURRENT APPLICATION NUMBER: US 99/455,486
; PRIOR APPLICATION NUMBER: US 99/455,486
; PRIOR APPLICATION NUMBER: US 99/323,873
; PRIOR FILING DATE: 1999-06-01
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: US 60/097,520
; RIOR APPLICATION NUMBER: US 60/097,520
; RIOR APPLICATION NUMBER: US 60/091,183
; PRIOR FILING DATE: 1998-06-01
; RIOR FILING DATE: 1998-06-01
; ROOF TOWN ROOF SEQ ID NOS: 47
APPLICANT: Stephen C. Mitchell
TITLE OF INVENTION: NOVEL SEREENTINE TRANSMEMBRANE ANTIGENS
TITLE OF INVENTION: BEPRESSED IN HUMAN CANCERS AND USES THEREOF
FILE REFERENCE: 51158201603
CURRENT APPLICATION NUMBER: US/10/408,009
CURRENT FILING DATE: 2003-04-04
PRIOR APPLICATION NUMBER: 09/455,486
PRIOR APPLICATION NUMBER: 09/455,486
PRIOR APPLICATION NUMBER: 09/323,873
PRIOR PILING DATE: 1999-12-06
PRIOR FILING DATE: 1999-12-06
NUMBER OF SEQ ID NOS: 36
NUMBER OF SEQ ID NOS: 36
SEQ ID NO 30
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        32.7%; Score 35; DB 16; Length 15; 50.0%; Pred. No. 1.3e+02; tive 2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
32.7%; Score 35; DB 15; Length 15;
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 5; Conservative 2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-856-109-30
Sequence 30, Application US/10856109
Publication No. US20040219591A1
GENERAL INFORMATION:
APPLICANT: Daniel E. Afar
```

```
Query Match 32.7%;
Best Local Similarity 50.0%;
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 50.0
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                  6 QNKEDAWIEH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6 RNVTDVWIDH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6 QNKEDAWIEH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-752-421-30
                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
APPLICANT: Rene S. Hubert
APPLICANT: Arthur B. Raitano
APPLICANT: Arthur B. Raitano
APPLICANT: Stephen C. Mitchell
TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
FILE REFERENCE: 511582001606
CURRENT APPLICATION NUMBER: US 10/455,109
CURRENT FILING DATE: 2004-05-28
PRIOR FILING DATE: 1999-12-06
PRIOR PRILING DATE: 1999-12-06
PRIOR PRILING DATE: 1999-66-01
PRIOR PLILNG DATE: 1999-66-01
PRIOR PLILNG DATE: 1998-06-01
PRIOR PLILNG DATE: 1998-06-01
PRIOR PLILNG DATE: 1998-06-01
PRIOR FILING DATE: 1998-06-01
SPRIOR FILING DATE: 1998-06-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Agensy: Inc.
APPLICANT: Agensy: Inc.
APPLICANT: Arthur B. Rateano
APPLICANT: Daniel E. H. Afar
APPLICANT: Douglas Saffran
APPLICANT: Douglas Saffran
APPLICANT: Douglas Saffran
APPLICANT: Douglas Saffran
APPLICANT: Steven Chappell Mitchell
APPLICANT: Steven Chappell Mitchell
APPLICANT: Aya Jakobovits
TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
TITLE OF INVENTION: BENEBERTINE TRANSMEMBRANE ANTIGENS
TITLE OF INVENTION: BENEBERTINE TRANSMEMBRANE AND USES THEREOF
FILE REFERENCE: 5158 - 20016.02
CURRENT APPLICATION NUMBER: US/10/753,195
CURRENT APPLICATION NUMBER: US 60/087,520
PRIOR PELING DATE: 1999-06-01
PRIOR PELING DATE: 1999-06-01
PRIOR PELING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: US 09/455,486
PRIOR PELING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: WO 99/62941
PRIOR APPLICATION NUMBER: PET/US00/33040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 32.7%; Score 35; DB 16; Length 15; Best Local Similarity 50.0%; Pred. No. 1.3e+02; Matches 5; Conservative 2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 33, Application US/10753195 Publication No. US20050004349A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6 RNVTDVWIDH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       : | | | | : |
6 QNKEDAWIEH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ) ORGANISM: Homo sapiens
US-10-856-109-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-753-195-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
```

```
; SOPTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 32
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-750-262-32
Query Match
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
Qy 6 RNVTDVWIDH 15
; | | | | | | |
Db 6 QNKEDAMIEH 15
Search Completed: June 20, 2005, 15:55:14
JOB time: 54.45 secs
```

```
02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-467-023-41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
0
44, Appl
46, Appl
203, App
210, App
2110, App
2110, Appl
47, Appl
30, Appl
47, Appl
47, Appl
47, Appl
55, Appl
51, Appl
51, Appl
51, Appl
61, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                        (without alignments)
92.445 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 41,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence Sequence S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                               June 20, 2005, 14:04:11; Search time 16.15 Seconds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1: /cgn2_6/prodata/1/iaa/5A_COMB.pep:*
2: /cgn2_6/prodata/1/iaa/5B_COMB.pep:*
3: /cgn2_6/prodata/1/iaa/6A_COMB.pep:*
4: /cgn2_6/prodata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/prodata/1/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/prodata/1/iaa/PCTUS_COMB.pep:*
                GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-142-5240-45
US-09-142-5240-45
US-08-467-023-210
US-08-467-023-211
US-08-467-023-211
US-08-467-023-211
US-09-142-5246-30
US-09-142-5246-30
US-09-142-5246-30
US-09-142-5246-30
US-08-30-458-198
US-08-468-50
US-08-468-50
US-08-468-50
US-08-468-50
US-08-468-50
US-08-467-023-40
                                                                                                                                                                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                 513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                            OM protein - protein search, using sw model
                                                                                                                                                                                                                                                  1 DAITMRNVTDVWIDHNSLSD 20
                                                                                                                                                                                                                                                                                       BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Issued Patents AA:*
                                                                                                                                                                                                             US-09-202-464-18
107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query
Match Length
                                Copyright
                                                                                                                                                                                                                                                                                                                                                                                                                                 Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Title:
Perfect score:
                                                                                                                                                                                                                                                                                           Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score
                                                                                                                                                                                                                                                      Sequence:
                                                                                                                                                                                                                                                                                                                                                     Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Database
                                                                                                                                   Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Result
No.
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INPORMATION:
GENERAL INPORMATION:
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Bollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mat.Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Saley, Mark A.;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, An
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 58; DB 3; Length 20;
Pred. No. 0.011;
3; Mismatches 3; Indels
                                                                                                                         Length 15;
                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER LEADABLE FORM:
COMPUTER: IBM FC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jame E. Remillard
REGISTRATION NUMBER: 38,872
REGISTRATION NUMBER: 3025
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ImmuLogic Pharmaceutical Corporation,
                                                                                            DB 4; Lens.
. 0.0075;
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 32
US-09-142-524D-46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; Sequence 203, Application US/08467023
; Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       54.2%;
60.0%;
                                                                                                                     54.2%;
                                                                                                                                                                                                                                                                                         6 RNVTDVWIDHNSLSD 20
                                                                                                                                                                                                                                                                                                                                        | |::|||||||:
1 RTATNIWIDHNSFSN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6 RNVTDVWIDHNSLSD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 RTATNIWIDHNSFSN 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE: (617) 227-74(
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 5
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET: 610 Lincoln St
CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20 amino acida
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9; Conservative
                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 9; Conserv
                                                                                                                     Query Match
Best Local Similarity
Matches 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-467-023-203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-467-023-203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH:
                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Kume, Akinori

APPLICANT: Kume, Akinori

APPLICANT: Kume, Akinori

APPLICANT: Invama, Akiko

APPLICANT: Kino, Kohsuke

TITLE OF INVERNION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

FILE REFERENCE: SPO-103

CURRENT APPLICATION NUMBER: US/09/142,524D

CURRENT APPLICATION NUMBER: PGI/JP97/00740

PRIOR FILING DATE: 1997-03-10

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 45:

LENGTH: 15

FLORE FILING DATE: DEBATE: 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Sone, Tobhio
APPLICANT: Sone, Tobhio
APPLICANT: Sone, Tobhio
APPLICANT: Mame, Akinori
APPLICANT: Mame, Akinori
APPLICANT: Mame, Akiko
APPLICANT: Iwane, Akiko
APPLICANT: Iwane, Akiko
APPLICANT: Iwane, Akiko
APPLICANT: Spoluke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT FILING DATE: 1990-09
PRIOR FILING DATE: 1997-09-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: PatentIn version 3.1
SEQ ID NO 46
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                        ö
                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                        .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 57.9%; Score 62; DB 4; Length 15; Best Local Similarity 60.0%; Pred. No. 0.0018; Matches 9; Conservative 4; Mismatches 2; Indels
                                                                           72.0%; Score 77; DB 3; Length 20; 60.0%; Pred. No. 1.1e-05; Live 5; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: MISC_FEATURE
COCATION: (1)..(15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 31
08-09-142-524D-45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 46, Application US/09142524D Patent No. 6719976
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 45, Application US/09142524D Patent No. 6719976
                                                                                                                                                                                                                                               1 DAITMRNVTDVWIDHNSLSD 20
                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 DAITMRNVTDVWIDH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ||:|:| |::||||
1 DALTLRTATNIWIDH 15
                                                                                                                     Best Local Similarity 60.0
Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (1)...(15)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-142-524D-46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-142-524D-45
    US-08-467-023-41
                                                                               Query Match
                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                           원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      요
```

```
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSE: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Pollock, Joanne; APPLICANT: Pollock, Joanne; APPLICANT: Pollock, Joanne; APPLICANT: Pollock, Joanne; APPLICANT: Bond, Julian F.; APPLICANT: Garman, Richard D; APPLICANT: Kuo, Mei-Chang; APPLICANT: Kuo, Mei-Chang; APPLICANT: Brauer, Andrew; APPLICANT: Brauer, Andrew; APPLICANT: Brauer, Steven P. TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen NUMBER OF SEQUENCES: 261
CORRESPONDENCES: 261
CORRESPONDENCES: ADDRESSE: Immuncaic Pharmaceutical Corporation, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 3; Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 0215 050

ZIP: 0215 051

ZIP: 0215 051

ZIP: 0215 051

COMPUTER READABLE FORM:
MEDIUM TYPE: Flopy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIPICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REGISTRATION NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-7401
TELEFAX: (617) 227-75941
INFORMATION FOR SEQ ID NO: 212:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acid8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 53; DB 3;
Pred. No. 0.049;
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 211, Application US/08467023
Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 66.7%;
Matches 8; Conservative 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | |::||||||
RTATNIWIDHNS 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6 RNVTDVWIDHNS 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         amino acid
                                                                                                                                                                                                                                                                                                                                                                                                             MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-467-023-211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                              L.wation:

APPLICANT: Griffeth, Irwin J.;

APPLICANT: Boollock, Joanne;

APPLICANT: Boollock, Joanne;

APPLICANT: Garman, Richard D;

APPLICANT: Weung, Siu-mei H.;

APPLICANT: Kuo, Mei-Chang;

APPLICANT: Weung, Siu-mei H.;

APPLICANT: Brauer, Andrew;

APPLICANT: Exley, Mark A.;

APPLICANT: Brauer, Andrew;

APPLICANT: Brauer, Mark A.;

APPLICANT: Brauer, Steven P.;

APPLICANT: Brauer, Signarese Cedar Pollen

TITLE OF INVENTION: Japanese Cedar Pollen

TITLE OF INVENTION: Japanese Cedar Pollen

WUMBER OF SEQUENCES: 261

CORRESPONDENCE ADDRESSS:

ADDRESSEE: ImmuLogic Pharmaceutical

GTTY: Waltham

STATE: MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 55; DB 3; Length 18; Pred. No. 0.028;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ALICAGEAL ASSETS AND A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: U5/08/467,023
FILING DATE: Unne 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEX/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 212. Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Golffeth, Irwin J.;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             51.4%;
60.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4 RTATNIWIDHNSDED 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy di
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6 RNVTDVWIDHNSLSD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 9; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 6
US-08-467-023-212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-467-023-210
```

셤 ò

ö

Gaps

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                               APPLICANT: Pollock, Joanne;
APPLICANT: Pollock, Joanne;
APPLICANT: Pollock, Joanne;
APPLICANT: Garman, Richard D;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Brauer, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immuncaic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 47; DB 3; Length 20;
Pred. No. 0.56;
2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OMPRATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION NUMBER: 08/350,225
FILING DATE: DECEMBER: 08/350,225
FILING DATE: DECEMBER: 08/350,225
FILING DATE: DECEMBER: 08/350,225
FILING TABLE DECEMBER: 08/350,225
FILING TABLE DECEMBER: 08/350,225
FILING TABLE DECEMBER: 08/350,225
FILING TABLE DECEMBER: 08/350,225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        025.6 USD2 (IMI-028CPD2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-323-873A-32
; Sequence 32, Application US/09323873A
; Patent No. 6329503
; GENERAL INFORMATION:
; APPLICANT: Daniel E. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Rahan Leong
; APPLICANT: Archur B. Raiteno
; APPLICANT: Steve Chappell Mitchell
                                                                                         Sequence 42, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025
TELECOMMUNICATION:
TELEPHONE: (617) 227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          43.9%;
70.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 4
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11 VWIDHNSLSD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 IWIDHNSFSN 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: Wald
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY:
                                                                  US-08-467-023-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-467-023-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEFICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Dairiki, Kazuo
APPLICANT: Dairiki, Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Wino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT APPLICATION NUMBER: DCT/JD97/00740
PRIOR FILING DATE: 1999-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 53; DB 3; Length 18;
Pred. No. 0.057;
2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             43.9%; Score 47; DB 4; Length 15; 70.0%; Pred. No. 0.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1; Indels
                COMPUTER READMED FORMS

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERRICE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
NAME/KEY: MISC FEATURE
COCATION: (1)...(15)
COTHER INFORMATION: Cryil peptide, Figure 1, Row 33
US-09-142-524D-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 47, Application US/09142524D Patent No. 6719976 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 66.7%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 70.0
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6 RNVTDVWIDHNS 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | |::||||||
4 RTATNIWIDHNS 15
COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11 VWIDHNSLSD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -09-142-524D-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 47
LENGTH: 15
```

à 셤 ö

ઠે

```
US-09-142-524D-44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-142-524D-44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-370,567-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 77, Application US/08981122B
Patent No. 612739
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Hatanaka, Yoshihiro
APPLICANT: Aritomi, Masaharu
TITLE OF INVENTION: Peptide for binding thereto a low density lipoprotein
FILE REPERENCE:
CURRENT APPLICATION NUMBER: US/08/981,122B
CURRENT FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: UP 7-176904
PRIOR FILING DATE: 1995-06-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Daniel E. Afar
APPLICANT: Paniel E. Habert
APPLICANT: Paniel B. Raitano
APPLICANT: Arthur B. Raitano
APPLICANT: Stephen C. Mitchell
APPLICANT: Stephen C. Mitchell
TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
FILE REFERENCE: 129.17-US-11
CURRENT APPLICATION NUMBER: US/09/455,486
CURRENT APPLICATION NUMBER: 09/323,873
PRIOR FILING DATE: 1999-06-01
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 30
LENGTH: 15
TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
CURRENT APPLICATION UNMER: US/09/323,873A
CURRENT PILING DATE: 1999-06-01
PRIOR FILING DATE: 1999-06-01
PRIOR FILING DATE: 1998-06-01
PRIOR FILING DATE: 1998-06-01
PRIOR PILING DATE: 1998-06-30
NUMBER OF SEC.ID NOS: 32
SOFTWARE: FASTERO FOR Windows Version 4.0
SEC.ID NO 32
                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                32.7%; Score 35; DB 4; Length 15; 50.0%; Pred. No. 31; tive 2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                        DB 3; Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                   32.7%; Score 35; DB
50.0%; Pred. No. 31;
tive 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 30, Application US/09455486 Patent No. 6833438
                                                                                                                                                                                                                                                                                                                                                                                   Query Match 32.7
Best Local Similarity 50.0
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6 RNVTDVWIDH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      : | | ||:|
6 QNKEDAWIEH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 RNVTDVWIDH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   QNKEDAWIEH 15
                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Homo Sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; ORGANISM: Homo sapiens
US-09-455-486-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                          US-09-323-873A-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 11
US-09-455-486-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-981-122-77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
```

```
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1997-03-10
PRIOR FILING DATE: 1997-03-10
NUMBER OF SO ID NOS: 174
SOFTWARE: Patentin version 3.1
LENGTH: 15
TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                 FEATURE: OTHER INFORMATION: Sequence of a peptide synthesized in Comparative Example 2 from
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                            Patent No. 6127339
OTHER INFORMATION: L-form F-moc amino acida by solid phase method using OTHER INFORMATION: multipeptide synthesizing system (RaMPS)
US-08-981-122-77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gарв
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Rosenberg, Steven
APPLICANT: Doyle, Michael
APPLICANT: Goodson, Robert
TITLE OF INVENTION: Peptide Inhibitors of Urokinase Receptor
TITLE OF INVENTION: Activity
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 30; DB 4; Length 15;
Pred. No. 1.9e+02;
3; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 15;
                                                                                                                                                                                                                                                                                                                                                                                          31.8%; Score 34; DB 3; Length 5; 80.0%; Pred. No. 4.1e+05; tive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCATION: (1). (15) OTHER INFORMATION: Cryjl peptide, Figure 1, Row 30
PRIOR APPLICATION NUMBER: PCT/JP96/01734
PRIOR FILING DATE: 1996-06-21
NUMBER OF SEQ ID NOS: 90
SCOTWARR: Patentin Ver. 2.0
SEQ ID NO 77
LENGTH: 5
TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 44, Application US/09142524D Patent No. 6719976
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 5, Application US/08370567
Patent No. 5656726
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28.0%;
                                                                                                                                                                                                                                                                                                                                                                                            Query Match 31.8
Best Local Similarity 80.0
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 28.0
Best Local Similarity 50.0
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ||:|:|
6 DALTLRTATN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 DAITMRNVID 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Sone, Toshio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12 WIDHN 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 WVDHN 5
```

```
MOLECULE TYPE: peptide HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                       10 DVWIDHNSLS 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4 DLWMRHYPLS 13
                                                                                                                                                                                                                                                                                                                                 US-08-438-759-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 5, Application US/08438759
Fatent No. 5679782
GENERAL INFORMATION
APPLICANT: Rosenberg, Steven
APPLICANT: Boyle, Michael
APPLICANT: Geodeson, Robert
ITILE OF INVENTION: Peptide Inhibitors of Urokinase Receptor
ITILE OF INVENTION: Activity
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: CA
COUNTRY: USA
ZIP: 94608
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: EatentIn Release #1.0, Version #1.25
SOFTWARE: PatentIn Release #1.0, Version #1.25
CLASSIFICATION NUMBER: US/08/438,759
FILING DATE:
CLASSIFICATION DATA:
PRIOR APPLICATION DATA:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28.0%; Score 30; DB 1; Length 17; 50.0%; Pred. No. 2.2e+02; tive 2; Mismatches 3; Indels
                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/370,567
                                                                                                                                                                                                                                                            FILING DATE:
CLASSIFICATION NUMBER: US/US/3/0,300
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/061,514
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Green, Grant D.
REGISTRATION NUMBER: 0341.001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-665-3542
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 amino acids
TYPE: amino acid
ADDRESSEE: Chiron Corporation
                 STREET: 4560 Horton Street
CITY: Emeryville
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 28.0
Best Local Similarity 50.0
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |:|: | ||
4 DLWMRHYPLS 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10 DVWIDHNSLS 19
                                                                                                   94608
                                                                             COUNTRY:
ZIP: 946
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-370-567-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 15
US-08-438-759-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
```

```
## PFLICATION NUMBER: US/08/061,514
### FTLING DATE:
#### ATTORNEY/AGENT INFORMATION:
#### ARGESTRATION NUMBER: 31,259
#### REFERENCE/DOCKET NUMBER: 0941.001
#### TELECOMMUNICATION INFORMATION:
#### TELECOMMUNICATION INFORMATION:
### TELECOMMUNICATION:
### TELECOMMUNIC
```

us-09-202-464-21.rapb

Н

```
Sequence 52, Appl
Sequence 51, Appl
Sequence 50, Appl
Sequence 24, Appl
Sequence 2, Appl
Sequence 17, Appli
Sequence 17, Appli
Sequence 11, Appli
Sequence 1259, Ap
                                                                                                                                                  June 20, 2005, 14:14:01 ; Search time 53.45 Seconds (without alignments) 143.678 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1: / cgn2_6/ptodata/2/pubpaa/USO7 PUBCOMB.ppp: *
2: / cgn2_6/ptodata/2/pubpaa/USO7 PUBCOMB.ppp: *
3: / cgn2_6/ptodata/2/pubpaa/USO6_PUBCOMB.ppp: *
4: / cgn2_6/ptodata/2/pubpaa/USO6_PUBCOMB.ppp: *
5: / cgn2_6/ptodata/2/pubpaa/USO7_NEW_PUB.ppp: *
6: / cgn2_6/ptodata/2/pubpaa/USO7_NEW_PUB.ppp: *
7: / cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.ppp: *
8: / cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.ppp: *
9: / cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.ppp: *
10: / cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.ppp: *
11: / cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.ppp: *
12: / cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.ppp: *
13: / cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.ppp: *
14: / cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.ppp: *
15: / cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.ppp: *
16: / cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.ppp: *
16: / cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.ppp: *
16: / cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.ppp: *
19: / cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.ppp: *
19: / cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.ppp: *
19: / cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.ppp: *
20: / cgn2_6/ptodata/2/pubpaa/USO0_NEW_PUB.ppp: *
21: / cgn2_6/ptodata/2/pubpaa/USO0_NEW_PUB.ppp: *
22: / cgn2_6/ptodata/2/pubpaa/USO0_NEW_PUB.ppp: *
22: / cgn2_6/ptodata/2/pubpaa/USO0_NEW_PUB.ppp: *
22: / cgn2_6/ptodata/2/pubpaa/USO0_NEW_PUB.ppp: *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          332641
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-354-240-52
US-10-354-240-51
US-10-354-240-53
US-10-354-240-53
US-10-005-530-24
US-09-791-524-2
US-10-821-544-17
US-10-349-543-4
US-10-107-532-1259
US-10-107-532-1259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                   1714042 seqs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Published_Applications_AA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                   - protein search, using sw model
                                                                                                                                                                                                                                                                                                            1 ASTGVTISNNHFFNHHKVML 20
                                                                                                                                                                                                                                                                                                                                                                   BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                          US-09-202-464-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query
Match Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Perfect score:
                                                                                                                                                                                                                                                                                                                                                                      Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score
                                                                                                   OM protein
                                                                                                                                                                                                                                                                                                                    Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Database
                                                                                                                                                       Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Result
```

Disea

ö

Gaps

ö

Query Match 68.5%; Score 74; DB 14; Length 15; Best Local Similarity 93.3%; Pred. No. 0.00014; Matches 14; Conservative 0; Mismatches 1; Indels

Sequence 2854, Sequence 4582, Sequence 1504, Sequence 2613, Sequence 2613, Sequence 5281, Sequence 5290, Sequence 6009, Sequence 6009, Sequence 6113, Sequence 6113, Sequence 6114, Sequence 6114, Sequence 16, My Sequence 16, My Sequence 116, My Sequence 2014, Sequence 210, Sequence 116, My Sequence 210, My Seque	Agent for Treating Allergic	
US-10-107-532-2854 US-10-107-532-4582 US-10-107-532-4582 US-10-107-532-1504 US-10-107-532-2021 US-10-107-532-3084 US-10-107-532-3084 US-10-107-532-5294 US-10-107-532-5294 US-10-107-532-5949 US-10-107-532-6099 US-10-107-532-6099 US-10-107-532-6099 US-10-107-532-6099 US-10-107-532-6099 US-10-107-532-6099 US-10-107-532-6114 US-10-107-532-6114 US-10-107-532-6114 US-10-107-532-6119 US-10-107-532-6119 US-10-107-532-6119 US-10-107-532-6119 US-10-107-532-6119 US-10-107-532-6119 US-10-107-532-6119 US-10-107-532-6113 US-10-107-532-5319 US-10-107-532-5319 US-10-107-532-5319 US-10-107-532-5319 US-10-107-532-5319 US-10-107-532-5319 US-10-107-532-613	ed Immunotherapeutic 10/354,240 9 997/00740 /142,524 de, Figure 1, Row 38	
311.5 31	ication U S20030185 S20030185 ON: Akinori iki, Akinori iki, Kazu a, Akiko A. Kobuko ON: Peptiko SPO-103D1 NUMBER: 2001 NUMBER: 2001 NUMBER: 2001 NUMBER: 1998-00 NOS: 174 In version	
RESCUENT A STATE OF THE PART O	US-10-354-240-52 Sequence 52, Applica Publication No. US20; GENERAL INFORMATION: APPLICANT: Sone, TO APPLICANT: Sone, TO APPLICANT: Iwama, APPLICANT: SPO CURRENT FILING DATE: PRIOR APPLICATION NO. PRIOR FILING DATE: NUMBER OF SEQ ID NO. SOFTWARE: PALENTING DATE: NUMBER OF SEQ ID NO. SUPERING FALLING DATE: NUMBER OF SEQ ID NO. SUPERING FALLING DATE: NUMBER OF SEQ ID NO. SUPERING FALLING DATE: NUMBER OF SEQ ID NO. SUPERING SOFTWARE: PALENTING DATE: DENGTH: 15 IENGTH: 15 IE	

```
Sequence 50, Application US/10354240

| Sequence 50, Application US/10354240
| Publication No. US2030185847A1
| Sequence 50, Application No. US2030185847A1
| SERVERAL INFORMATION:
| APPLICANT: Sone, Toshio
| APPLICANT: Example Akinori
| APPLICANT: Iwama, Akinori
| APPLICANT: Iwama, Akinori
| APPLICANT: Wino, Kohauke
| TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea TILE REFERENCE: SPO-103D1
| CURRENT APPLICATION NUMBER: US/10/354,240
| PRIOR PELICATION NUMBER: US/10/397/00740
| PRIOR FILING DATE: 1997-03-10
| PRIOR PELICATION NUMBER: US/10/3-10
| PRIOR PELICATION NUMBER: US/10/3-10
| PRIOR SEQ ID NOS: 174
| SOFTWARE: PatentIn version 3.1
| TELLING DATE: 1997-03-10
| PRIOR PELICATION NUMBER: US/10/3-10
                                                                             ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WESULO. S. 530-24

Sequence 24, Application US/10005530

Publication No. US203303026795A1

GENERAL INFORMATION:
APPLICANT: Isaac, Barbara G.
APPLICANT: Greenplate, John T.
APPLICANT: Romano, Charles P.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR CONTROLLING INSECTS
FILE REFERENCE: 11999-0022. DVUSGO1 (MOBT:022-2)
FILE REFERENCE: 11999-0022. DVUSGO1 (MOBT:022-2)
CURRENT APPLICATION NUMBER: 09/063,733
FRIOR APPLICATION NUMBER: 09/063,733
FRIOR APPLICATION NUMBER: 60/044,504
FRIOR FILING DATE: 1998-04-21

NUMBER OF SEQ ID NOS: 58

SOFTWARE: PATENTING DATE: 1997-04-21

                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ..
0
                                                                                ..
0
                    48.1%; Score 52; DB 14; Length 15; 100.0%; Pred. No. 0.34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 14; Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; LOCATION: (1) 7(15)
; CHER INFORMATION: Cryjl peptide, Figure 1, Row 36
(US-10-354-240-50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 45; DB 1
Pred. No. 4;
1; Mismatches
                                                                             0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 90.0%;
Matches 9; Conservative 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Artificial Sequence
                    Query Match
Best Local Similarity 100.
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 ASTGVTISNN 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6 SSTGVTISNN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: MISC FEATURE
                                                                                                                                                                          2 FFNHHKVML 10
                                                                                                                                         12 FFNHHKVML
                                                                                                                                         ઠે
                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 53, Application US/10354240

Sequence 53, Application US/10354240

BUDIcation No. US20030185847A1

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Wama, Akiko

APPLICANT: Iwama, Akiko

APPLICANT: Wino, Kohsuke

ILE REFERENCE: SPO-10301

CURRENT APPLICATION NUMBER: US/10/354,240

CURRENT FILING DATE: 1997-03-10

PRIOR APPLICATION NUMBER: PCT/JP97/00740

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR PRILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOOTHWARE: PatentIn version 3.1

SEQ ID NO 53

LENGTH: 15
                                                                                                                                                                          Sequence 51. Application US/10354240

Dublication No. US20030185847A1

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Name, Akinori

APPLICANT: Name, Akinori

APPLICANT: Name, Akinori

APPLICANT: Name, Akiko

FILE REFERENCE: SPO-103D1

CURRENT PAPLICATION NUMBER: US/10/354,240

CURRENT FILING DATE: 2003-01-29

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR APLICATION NUMBER: US 09/142,524

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: PatentIn version 3.1

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            63.0%; Score 68; DB 14; Length 15;
86.7%; Pred. No. 0.0011;
tive 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCATION: (1).7(15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 37
US-10-354-240-51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; LOCATION: (1). T(15); OTHER INFORMATION: Cryjl peptide, Figure 1, Row 39 US-10-354-240-53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 ASTGVTISNNHFFNH 15
                                                  1 TISNNLFFNHHKVML 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 63.03
Best Local Similarity 86.73
Matches 13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: MISC FEATURE
                                                                                                                                                                 US-10-354-240-51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-354-240-53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
ઠે
```

8 셤

```
US-09-791:524-1
Sequence 1, Application US/09791524
Publication No. US20030143209A1
Publication No. US20030143209A1
GENERAL INFORMATION:
APPLICANT: Aventis Pharmaceuticals Products Inc.
TITLE OF INVENTION: Targeted Adenovirus Vectors For Delivery Of Heterologous Genes
FILE REFERENCE: A3319A
CURRENT APPLICATION NUMBER: US/09/791,524
CURRENT FILIAG DATE: 2001-02-22
PRIOR APPLICATION NUMBER: 60/09828
PRIOR FILIAG DATE: 1998-08-27
                                                                                                                                                                                                                                                                                                  Varga, Janos
TITLE OF INVENTION: CYCLIC PEPTIDES THAT BIND TO
UROKINASE-TYPE PLASMINGEN ACTIVATOR RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: LIVNAT, SHMUEL
REGISTRATION NUMBER: 33,949
REFERENCE/DOCKET NUMBER: ANG-001/DIV (80144-0007)
TELECOMMUNICATION : (202) 955-8787
TELEFAX: (202) 955-3751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARRE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/349,543
FILING DATE: 22-Jan-2003
CLASSIFICATION: <UNKNOWN>
                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
ADDRESSE: RADER, FISHMAN & GRAUER
STREET: 1233 20TH STREET NW, SUITE 501
CITY: WASHINGTON
STATE: DC
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 35; DB 14;
Pred. No. 1.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/285,783
FILING DATE: 05-Apr-1999
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDIUM TYPE: Floppy disk
                                                                                                                                                                                Sequence 4, Application US/10349543
Publication No. US20030166514A1
GENERAL INPORMATION:
APPLICANT: Jones, Terence R.
Varga, Janos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
LENGTH: 18 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 46.2%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ZIP: 20036
COMPUTER READABLE FORM:
                                                  | :|| :| | | S GTAVSNKYFSNLH 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO:
                          GVTISNNHFFNHH 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 GTCVSNKYFSNIH 13
                                                                                                                                                                  US-10-349-543-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-349-543-4
                                                                                                                                       RESULT 8
                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                              Publication US/09791524

Publication No. US20030143209A1

GENERAL INFORMATION:

GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Aventis Pharmaceuticals Products Inc.

TITLE OF INVENTION: Targeted Adenovirus Vectors For Delivery Of Heterologous Genes FILE REFERENCE:

TITLE OF INVENTION NUMBER: US/09/791,524

CURRENT APPLICATION NUMBER: 60/09828

PRIOR FILING DATE: 1998-08-27

NUMBER OF SEQ ID NOS: 150

SOFTWARE: Patentin version 3.0

SEQ ID NO 2

LENGTH: 19
                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 17, Application US/10821544

Publication No. US2004026579741

GENERAL INFORMATION:
APPLICANT: ROSENBERG, STEVE
APPLICANT: CHAPMAN, HARGLD
TILLE OF INVENTION: PREPTIDE LIGANDS OF THE UROKINASE RECEPTOR
FILE REFERENCE: 014024-0284102
CURRENT APPLICATION NUMBER: US/10/821,544
CURRENT APPLICATION NUMBER: US/09/155,260C
PRIOR PAPLICATION NUMBER: US/09/155,260C
PRIOR APPLICATION NUMBER: PCT/US97/05199
PRIOR FILING DATE: 1998-09-23
PRIOR FILING DATE: 1998-03-28
PRIOR FILING DATE: 1996-03-28
PRIOR PLICATION NUMBER: 08/623,361
PRIOR PLICATION NUMBER: 08/623,361
PRIOR PLING DATE: 1996-03-28
NUMBER OF SEQ ID NOS: 76
SOFTWARE: PATENTIN Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: peptide ligand
                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                   Score 39; DB 14; Length 20;
Pred. No. 46;
2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 33.3%; Score 36; DB 16; Length 19
Best Local Similarity 46.2%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      33.3%; Score 36; DB 10; Length 19
46.2%; Pred. No. 1.3e+02;
tive 2; Mismatches 5; Indels
; OTHER INFORMATION: Synthetic Peptide
US-10-005-530-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Artificial Sequence
                                                                   Query Match 36.1%;
Best Local Similarity 54.5%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4 GVTISNNHFFNHH 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4 GTAVSNKYFSNIH 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6; Conservative
                                                                                                                                                                  5 VTISNNHFFNH 15
                                                                                                                                                                                                           2 VVLEQNNFFNH 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Adenovirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-821-544-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-791-524-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
```

ઠે 셤

à

```
APPLICANT: Morrison, Karen Jane Meyrick
APPLICANT: Morrison, Robert Kendall
APPLICANT: Morrison, Robert Kendall
APPLICANT: Morrison, Robert Kendall
APPLICANT: Afar, Daniel E.H.
APPLICANT: Ge, Wangmao
ARTICANT: Ge, Wangmao
APPLICANT: Challita-Eid, Pia M.
APPLICANT: Challita-Eid, Pia M.
TITLE OF INVENTION: Butiled 158P3D2 Useful in Treatment and Detection of Cancer;
FILE REFERENCE: 51158-200064.00
CURRENT APPLICATION NUMBER: US/10/107,532
CURRENT APPLICATION NUMBER: G0/283,112
PRIOR APPLICATION NUMBER: 60/283,112
PRIOR FILING DATE: 2001-04-10
PRIOR FILING DATE: 2001-04-25
FRING APPLICATION NUMBER: 60/286,630
TITLE OF INVENTION: Nucleic Acid and Corresponding Protein
TITLE OF INVENTION: Entitled 158P3D2 Useful in Treatment and Detection of Cancer FILE REFERENCE: 51158-200064.00
CURRENT APPLICATION NUMBER: US/10/107,532
CURRENT APPLICATION NUMBER: 60/283,112
PRIOR APPLICATION NUMBER: 60/283,112
PRIOR FILING DATE: 2001-04-10
PRIOR PILING DATE: 2001-04-25
NUMBER OF SEQ ID NOS: 6321
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1786
LENGTH: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                 .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31.5%; Score 34; DB 15; Length 9; 50.0%; Pred. No. 1.6e+06; 1ive 3; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                      Length 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                               1, Indels
                                                                                                                                                                                                                                                                                                                                                                                                    31.5%; Score 34; DB 15; 50.0%; Pred. No. 1.6e+06; tive 3; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS: 6321
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 13
US-10-107-532-4582
Sequence 4582, Application US/10107532
Publication No. US2004003418A1
GENERAL INFORMATION:
APPLICANT: AGENSYS, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; Sequence 2854, Application US/10107532; Publication No. US20040003418A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Agensys, Inc.
APPLICANT: Jakobovits, Aya
APPLICANT: Faris, Mary
                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 31.5
Best Local Similarity 50.0
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Homo sapien
                                                                                                                                                                                                                                                                                                                                ; ORGANISM: Homo sapien
US-10-107-532-1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10 NHFFNHHK 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10 NHFFNHHK 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | |::||:
2 NRFYSHHR 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | |::||:
NRFYSHHR 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-107-532-2854
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-107-532-2854
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 2854
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        요
                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-10/-534-1259, Application US/10107532

Sequence 1259, Application US/10107532

Publication No. US20040003418A1

GENERAL INFORMATION:

APPLICANT: Agenery, Inc.

APPLICANT: Morrison, Karen Jane Meyrick

APPLICANT: Morrison, Karen Jane Meyrick

APPLICANT: Morrison, Karen Jane Meyrick

APPLICANT: Afar, Daniel E.H.

APPLICANT: Challita-Eid, Pia M.

APPLICANT: Challita-Eid, Pia M.

APPLICANT: Challita-Eid, Pia M.

TITLE OF INVENTION: Nucleic Acid and Corresponding Protein

TITLE OF INVENTION: NUMBER: US/10/107,532

CURRENT APPLICATION NUMBER: 60/283,112

PRIOR FILING DATE: 2001-04-25

NUMBER OF SEQ ID NOS: 6321

SOFTWARE FRANCE: FastSEQ for Windows Version 4.0

SOFTWARE FASTSER FASTSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                            Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31.5%; Score 34; DB 15; Length 9; 50.0%; Pred. No. 1.6e+06; tive 3; Mismatches 1; Indels
                                                                                                                                                                                         Score 35; DB 10; Length 19
Pred. No. 1.8e+02;
2; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1786, Application US/10107532
Publication No. US20040003418A1
GENERAL INFORMATION:
APPLICANT: Agensys, Inc.
APPLICANT: Faris, Mary
APPLICANT: Faris, Mary
APPLICANT: Morrison, Karen Jane Meyrick
APPLICANT: Morrison, Robert Kendall
APPLICANT: Morrison, Robert Kendall
       NUMBER OF SEQ ID NOS: 150
SOFTWARE: PatentIn version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ge, Wangmao
Raitano, Arthur
Challita-Eid, Pia M.
                                                                                                                                                                                            Query Match 32.4%;
Best Local Similarity 46.2%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hubert, Rene S.
Afar, Daniel E.H.
                                                                                                                                                                                                                                                                                       4 GVTISNNHFFNHH 16
                                                                                                                                                                                                                                                                                                                                4 GTCVSNKYFSNIH 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 50.0
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10 NHFFNHHK 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2 NRFYSHHR 9
                                                                                                TYPE: PRT
CORGANISM: Adenovirus
US-09-791-524-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 11
US-10-107-532-1786
                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-107-532-1259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-107-532-1259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 1259
                                                SEQ ID NO 1
LENGTH: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
```

셤

```
APPLICANT: Ge, Wangmao Arthur
APPLICANT: Raitano, Arthur
APPLICANT: Chalita-Eid, Pia M.
TITLE OF INVENTION: Butiled 158P3D2 Useful in Treatment and Detection of Cancer FILE REFREENCE: 51158-20064.00
CURRENT APPLICATION NUMBER: US/10/107,532
CURRENT APPLICATION NUMBER: 60/283,112
PRIOR APPLICATION NUMBER: 60/283,112
PRIOR FILING DATE: 2001-04-10
PRIOR FILING DATE: 2001-04-25
NUMBER OF SEQ ID NOS: 6321
SOFTWARE: PastSEQ for Windows Version 4.0
LENGTH: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31.5%; Score 34; DB 15; Length 10; 50.0%; Pred. No. 1.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3; Mismatches
                                                                                                                                                                                                                                                                      Morrison, Karen Jane Meyrick
Morrison, Robert Kendall
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Search completed: June 20, 2005, 15:55:14
Job time : 53.45 secs
                                                                                            US-10-107-532-1504
; Sequence 1504, Application US/10107532
; Publication No. US20040003418A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                  Hubert, Rene S.
Afar, Daniel E.H.
                                                                                                                                                                                           APPLICANT: Agensys, Inc.
APPLICANT: Jakobovits, Aya
APPLICANT: Faris, Mary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10 NHFFNHHK 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3 NRFYSHHR 10
1 NRFYSHHR 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-107-532-1504
                                                                                                                                                                                                                                                                                                                                              APPLICANT:
용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    유
                                                                               APPLICANT: Hubert, Rene S.
APPLICANT: Afar, Daniel E.H.
APPLICANT: Afar, Daniel E.H.
APPLICANT: Gallita-Eid, Pia M.
TITLE OF INVENTION: Mucleic Acid and Corresponding Protein
TITLE OF INVENTION: Mucleic Acid and Corresponding Protein
TITLE OF INVENTION: Butiled 158P3D2 Useful in Treatment and Detection of Cancer; TILE REFERENCE: 51158-200064.00
CURRENT APPLICATION NUMBER: 00/203,112
PRIOR APPLICATION NUMBER: 60/203,112
PRIOR APPLICATION NUMBER: 60/203,112
PRIOR APPLICATION NUMBER: 60/206,630
PRIOR PILING DATE: 2001-04-126
NUMBER OF SEQ ID NOS: 6321
SOFTWARE: PastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Agensys, Inc.

APPLICANT: According Aya

APPLICANT: Faris, Mary

APPLICANT: Morrison, Karen Jane Meyrick

APPLICANT: Hubert, Rene S.

APPLICANT: Hubert, Rene S.

APPLICANT: Ge, Wangmao

APPLICANT: Ge, Wangmao

APPLICANT: Raitano, Arthur

APPLICANT: Raitano, Arthur

APPLICANT: Raitano, Arthur

APPLICANT: Britled 188P3D2 Useful in Treatment and Detection of Cancer;

APPLICANT: S108-200064,00

TITLE OF INVENTION: Britled 188P3D2 Useful in Treatment and Detection of Cancer;

TITLE OF INVENTION NUMBER: 60/283,112

CURRENT APPLICATION NUMBER: 60/286,630

FRIOR APPLICATION NUMBER: 60/286,630

PRIOR FILING DATE: 2001-04-10

PRIOR FILING DATE: 2001-04-10

PRIOR FILING DATE: 2001-04-10

PRIOR FILING DATE: 2001-04-25

NUMBER OF SEQ ID NOS: 6321

TENGNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 34; DB 15; Length 9;
Pred. No. 1.6e+06;
3; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      31.5%; Score 34; DB 15; Length 9; 50.0%; Pred. No. 1.6e+06; Live 3; Mismatches 1; Indels
               Faris, Mary
Morrison, Karen Jane Meyrick
Morrison, Robert Kendall
Hubert, Rene S.
Afar, Daniel E.H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 4644, Application US/10107532 Publication No. US20040003418A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31.5%;
50.0%;
Jakobovits, Aya
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 50.0
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; TYPE: PRT
; ORGANISM: Homo sapien
US-10-107-532-4644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10 NHFFNHHK 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | |::||:
1 NRFYSHHR 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-107-532-4582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 4582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
```

10 NHFFNHHK 17

ò

ö

Gaps

THIS REAL PROPERTY.

5, Appli 20, Appl 10, Appl 15, Appl 30, Appl 103, App 103, Appl 16, Appli 16, Appli 16, Appli 16, Appli 16, Appli 11, Appli

Sequence Sequence

Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence

Sequence Sequence Sequence

Run on:

```
APPLICANT: Bond, Julian F.;
APPLICANT: Bond, Julian F.;
APPLICANT: Bond, Julian F.;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Garman, Richard D;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS: 261
CORRESPONDENCE ADDRESS: 261
CORRESPONDENCE Immulogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIN Release #1.0, Version #1.25
SOFTWARE: PatentIN Release #1.0, Version #1.25
SOFTWARE: Use of 1.995
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
FILING DATE: December 6, 1994
PRIOR APPLICATION BATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 38,872
REFE
                     US-08-142-590B-6
US-08-402-641-1
US-08-401-94-60
US-08-142-590B-5
US-09-143-13B-20
US-09-143-13B-20
US-09-143-15-19
US-09-218-176-40
US-09-218-176-40
US-09-318-316C-30
US-09-318-316C-30
US-09-039-780A-103
US-08-460-411A-16
US-08-460-411A-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 44, Application US/08467023; Patent No. 6090386; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 1
US-08-467-023-44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
53, Appl
45, Appl
43, Appl
17, Appl
17, Appl
44, Appl
44, Appl
26, Appl
26, Appl
26, Appl
116, Appl
116, Appl
118, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                  (without alignments)
92.445 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Seguence
                                                                                                                                                                                                June 20, 2005, 14:04:11 ; Search time 16.15 Seconds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
                        GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-467-023-44
US-09-142-524D-52
US-09-142-524D-53
US-09-142-524D-53
US-08-467-023-45
US-08-467-023-43
US-08-467-023-43
US-08-063-733A-24
US-08-142-590B-24
US-08-142-590B-24
US-08-142-590B-24
US-08-142-590B-24
US-08-142-590B-24
US-08-142-590B-24
US-08-142-590B-24
US-08-142-590B-24
US-08-142-179-116
US-08-436-913A-18
US-08-515-903A-18
US-08-515-903A-18
US-08-515-903A-18
US-08-515-903A-18
US-08-515-903A-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-747-915-8
US-09-285-783-8
US-08-981-490B-5
US-07-826-928A-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-181-816-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                           - protein search, using sw model
                                                                                                                                                                                                                                                                                                                  US-09-202-464-21
108
1 ASTGVTISNNHFFNHHKVML 20
                                                                                                                                                                                                                                                                                                                                                                                                                                           BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Issued Patents AA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Minimum DB seq length: 0
Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                        Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                              Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OM protein
                                                                                                                                                                                                                                                                                                                                                                                         Seguence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Searched:
```

Database

Result

```
GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Mame, Akinori
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Mino, Kohauke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
CURRENT APPLICATION NUMBER: 1990-09
FRIOR FILING DATE: 1998-09-09
FRIOR FILING DATE: 1997-03-10
FRIOR FILING DATE: 1997-03-10
FRIOR FILING DATE: 1997-03-10
SEQ ID NOS: 174
SEQ ID NO 53
                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
APPLICANT: Griffech, Irwin J.;
APPLICANT: Bond, Julian F.;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Exauer, Andrew;
APPLICANT: Exauer, Andrew;
APPLICANT: Exaley, Mark A.;
APPLICAN
                                                                                                      Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match

48.1%; Score 52; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.067;
Matches 9; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               iE: ImmuLogic Pharmaceutical Corporation, Inc. 610 Lincoln St
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        j LOCATION: (1)..(15)
j OTHER INFORMATION: Cryjl peptide, Figure 1, Row 39
US-09-142-524D-53
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 37 US-09-142-524D-51
                                                                                                      Score 68; DB 4;
Pred. No. 0.0002;
                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; Sequence 53, Application US/09142524D
; Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 45, Application US/08467023 ; Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT ORGANISM: Cryptomeria japonica
                                                                                                  Query Match 63.0%;
Best Local Similarity 86.7%;
Matches 13; Conservative
                                                                                                                                                                                                                                            1 ASTGVTISNNHFFNH 15
                                                                                                                                                                                                                                                                                                               1 SSTGVTISNNLFFNH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12 FFNHHKVML 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FFNHHKVML 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-142-524D-53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 5
US-08-467-023-45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE
                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-13-12-524D-51

US-09-14-52 Application US/09142524D

Sequence 51, Application US/09142524D

Sequence 51, Application US/09142524D

Sequence 51, Application US/09142524D

GENERAL INFORMATION

APPLICANT: Sone, Toshio

APPLICANT: Name, Akinori

APPLICANT: Name, Akinori

APPLICANT: Name, Akinori

APPLICANT: Kino, Kohauke

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Disea

CURRENT APPLICATION NUMBER: US/09/142,524D

CURRENT APPLICATION NUMBER: PT/JP97/00740

PRIOR FILING DATE: 1997-03-10

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 51

LENGTH: 15

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Sone, Tochio
APPLICANT: Sone, Tochio
APPLICANT: Sone, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Wama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Spo. 103
CURRENT SILING DATE: 1996-103
CURRENT FILING DATE: 1997-009
PRIOR FILING DATE: 1997-00-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: PATENTIN VERSION 3.1
SEQ ID NO 52
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;
0
                                                                                                                                                ö
                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 68.5%; Score 74; DB 4; Length 15; Best Local Similarity 93.3%; Pred. No. 2.2e-05; Matches 14; Conservative 0; Mismatches 1; Indels
                                                                   Query Match
Best Local Similarity 94.7%; Pred. No. 3.1e-08;
Matches 18; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCATION: (1).7(15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 38
US-09-142-524D-52
                                                                                                                                                                                                                                                                                                                                                                    RESULT 2
US-09-142-524D-52
; Sequence 52, Application US/09142524D
; Setent No. 6719976
; GENERAL INFORMATION:
                                                                                                                                                                                                            2 STGVIISNNHFFNHHKVML 20
                                                                                                                                                                                                                                                   2 STGVTISNNLFFNHHKVML 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6 TISNNHFFNHHKVML 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 TISNNLFFNHHKVML 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (1)..(15)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: MISC_FEATURE
       US-08-467-023-44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ;
                                                                                                                                                                                                                                                   APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Exaley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc. STREET: 610 Lincoln St. CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 24, Application US/09063733A
Patent No. 6372211
GENERAL INPORMATION:
APPLICANT: 18aac, Barbara G.
APPLICANT: Greenplate, John T.
APPLICANT: Romano, Charles P.
APPLICANT: Romano, Charles P.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR CONTROLLING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 40.7%; Score 44; DB 3; Length 20; Best Local Similarity 100.0%; Pred. No. 1.7; Matches 9; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDILM ATTACKARD COMPATION:

COMPUTER: ELOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/NS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: Unne 6, 1995
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/COCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION:
                                                                               Sequence 43, Application US/08467023
                                                                                                                                                 Griffeth, Irwin J.;
Pollock, Joanne;
Bond, Julian F.;
Garman, Richard D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2 STGVTISNN 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12 STGVTISNN 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-063-733A-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-467-023-43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Twama, Akinori
APPLICANT: Twama, Akinori
APPLICANT: Twama, Akiko
APPLICANT: None: 103
APPLICANT: The OF INVENTION WOMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR FILING DATE: 1998-09-09
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1997-03-10
NUMBER: OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
LENGTH: 15
TYPE: PRT
TYPE: PRT
CORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 48.1%; Score 52; DB 3; Length 20; Best Local Similarity 100.0%; Pred. No. 0.092; Matches 9; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                41.7%; Score 45; DB 4; Length 15; 90.0%; Pred. No. 0.85;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Indels
                  COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTONNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REGISTRATION NUMBER: 38,872
REGISTRATION NUMBER: 025.6 USD2 (IMI-028CPD2)
TELEPHONE: (617) 227-7400
TELEPHONE: (617) 227-7401
TELEPHONE: (617) 227-7401
TELEPHONE: (617) 227-75941
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: Amino acids
TYPE: Amino acids
TYPE: Amino acids
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                        025.6 USD2 (IMI-028CPD2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; LOCATION: (1). (15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 36
US-09-142-524D-50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; Sequence 50, Application US/09142524D
; Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 ASTGVTISNN 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SSTGVTISNN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2 FFNHHKVML 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12 FFNHHKVML 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 9; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-142-524D-50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-467-023-45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
```

셤

ઠે

ö

δ 셤

```
RESULT 10
US-08-747-915-4
                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 17, Application US/09155260C
Fatent No. 6794358
General No. 6794358
GENERAL INFORMATION:
APPLICANT: ROSEBERG, STEVE
APPLICANT: CHAPMAN, HAROLD
TITLE OF INVENTION: PEPTIDE LIGANDS OF THE UROKINASE RECEPTOR
FILE REFERENCE: 014024-0284102
CURRENT FILING DATE: 1999-09-23
FRICK APPLICATION NUMBER: PCT/US97/05199
PRIOR FILING DATE: 1997-03-28
PRIOR FILING DATE: 1996-03-28
PRIOR FILING DATE: 1996-03-28
PRIOR FILING DATE: 1996-03-28
SOFTWARE: PATENTING DATE: 1997-03-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic; COTHER INFORMATION: peptide ligand US-09-155-260C-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 36.1%; Score 39; DB 3; Length 20; Best Local Similarity 54.5%; Pred. No. 10; Matches 6; Conservative 2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 33.3%; Score 36; DB 4; Length 19; Best Local Similarity 46.2%; Pred. No. 29; Matches 6; Conservative 2; Mismatches 5; Indels
                                                                                                                                                         COUNTRY: 103A

ZIP: 77210-4433

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READBLE FORM:

MEDIUW TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/063,733A

FILING DATE: 21-APR-1998

CLASSIPICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Patterson, Melinda L.

REGISTRATION NUMBER: 33,062

REFERENCE/DOCKET NUMBER: 33,062

TELECOMMUNICATION INFORMATION:

TELEPAK: 713-787-1440

INFORMATION FOR SEQ ID NO: 24:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 mming acids
                                                       ADDRESSEE: Arnold White & Durkee STREET: PO Box 4433
CITY: Houston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Artificial Sequence
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5 VTISNNHFFNH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2 VVLEONNFFNH 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; TOPOLOGY: linear
US-09-063-733A-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-155-260C-17
                                                                                                              CITY: Hou
STATE: TX
COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
```

4 GVTISNNHFFNHH 16

```
GOETINCK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WS-08-142-590B-4
Sequence 4, Application US/08142590B
Sequence 4, Application US/08142590B
Sequence 4, Application US/08142590B
Sequence 4, Application
Sequence 5, Parent No. 61207B
GENERAL INFORMATION:
APPLICANT: HIBINO, Tashihiko; TAKAHASHI, Tadahito; HORII, Izumi; and
TITLE OF INVENTION: UROKINASE PLASMINOGEN ACTIVATOR FRAGMENTS
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKPIELD, LLP
STARET: 28 State Street
CIT: Boston
STATE: Massachusetts
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                            Sequence 4, Application US/08747915
Patent No. 5942492
GENERAL INFORMATION:
APPLICANT: Jones, Terence R.
APPLICANT: Haney, David N.
APPLICANT: Varga, Janos
TITLE OF INVENTION: CYCLIC PEPTIDES THAT BIND TO
TITLE OF INVENTION: UROKINASE-TYPE PLASMINOGEN ACTIVATOR RECEPTOR NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 35; DB 2; Length 18; Pred. No. 39;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: USA

ZIP: 2006-1812

COMPUTER READBLE FORM:
MEDIUW TYPE: Floppy disk
COMPUTER: IBM FC compatible
OMPRATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/747,915
FILING DATE: 12-NOV-1996
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: MURABAHIGE, KATE H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 32904-20001.00
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEERAX: (202) 887-1500
TELEERAX: (202) 887-0763
TELEERAX: 90-430 MRSNPOERSWSH
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 aming acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 PENNSYLVANIA AVENUE,
CITY: WASHINGTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 32.4%;
Best Local Similarity 46.2%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
| :|| :| | | S GTAVSNKYFSNLH 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 GTCVSNKYFSNIH 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4 GVTISNNHFFNHH 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; TOPOLOGY: linear
US-08-747-915-4
```

```
GOETINCK,
                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 23, Application US/08142590B
| Patent No. 6120765
| GENERAL INFORMATION: APPLICANT: HIBINO, Tashihiko; TAKAHASHI, Tadahito; HORII, Izumi; and TITLE OF INVENTION: UROKINASE PLASMINOGEN ACTIVATOR FRAGMENTS
| VIMBER OF SEQUENCES: 25
| CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Jones, Terence R.
Haney, David N.
Varga, Janos
TITLE OF INVENTION: CYCLIC PEPTIDES THAT BIND TO
UROKINASE-TYPE PLASMINOGEN ACTIVATOR RECEPTOR
                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                            ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY: USA
ZIE: 20036
COMPUTER: USA
COMPUTER: Floppy disk
COMPUTER: Thoppy disk
COMPUTER: Thoppy disk
COMPUTER: DATE Floppy disk
COMPUTER: DATE Floppy disk
COMPUTER: DATE Floppy disk
COMPUTER: DATE Floppy disk
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATE: 05-Apr-1999
CLASSIFICATION: <UNKnown>
ATTORNEY AGENT INPORMATION:
NAME: LIVNAT, SHWIEL
REGISTRATION NUMBER: 33,949
REFERENCE/DOCKET NUMBER: 33,949
REFERENCE/DOCKET NUMBER: ANG-001/DIV (80144-0007)
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 955-8781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4; Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENČE ADDRESS:
ADDRESSEE: RADER, FISHWAN & GRAUER
STREET: 1233 20TH STREET NW, SUITE 501
CITY: WASHINGTON
STATE: DC
                                                                                                          Score 35; DB 3;
Pred. No. 39;
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    32.4%; Score 35; DB 46.2%; Pred. No. 39; tive 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ;
TOPOLOGY: linear
;
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-285-783-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 4, Application US/09285783
Patent No. 6514710
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 18 amino acide
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO: 4: SEQUENCE CHARACTERISTICS:
                                                                                                      Query Match
Best Local Similarity 46.2%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                               GTCVSNKYFSNIH 14
                                                                                                                                                                                                                                       4 GVTISNNHFFNHH 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4 GVTISNNHFFNHH 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 GTCVSNKYFSNIH 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 46.2
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES:
                FRAGMENT TYPE: internal
                                           US-08-142-590B-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-142-590B-23
                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 13
US-09-285-783-4
                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GOETINCK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 24, Application US/08142590B

Facent No. 6120765
GENERAL INFORMATION:
APPLICANT: HIBINO, Tashihiko; TAKAHASHI, Tadahito; HORII, Izumi, and TITLE OP INVENTION:
UVMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSE: LAHIVE & COCKFIELD, LLP STREET: 28 State Street
CITY: Boston
STREET: Wassachusetts
COUNTRY: USA
ZIP: 02109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 32.4%; Score 35; DB 3; Length 18; 46.2%; Pred. No. 39; 5; Indels tive 2; Mismatches 5; Indels
COMPUTER: IBM PC compatible
COMPUTER: ASCII Text
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NAMBER: US/08/142,590B
FILING DATE: 25-OCT-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/042,318
FILING DATE: 02-APR-1993
ATTORNEY,AGENT INFORMATION:
NAME: MYGETS, PRUL L.
REGISTRATION NUMBER: 35,965
REFERENCE/DOCKET NUMBER: 35,965
R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/142,590B
FILING DATE: 25-OCT-1993
PRIOR APPLICATION NUMBER: US/08/142,590B
FILING DATE: 02-APR-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Myers, Paul L.
REGISTRATION NUMBER: 35,965
REFRENCE/DOCKET NUMBER: MGP-009CP
TELECOMMUNICATION INFORMATION:
TELEFHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 amino acids
TYPE: amino acids
TYPE: amino acids
TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4 GVTISNNHFFNHH 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 46.2
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3 GTCVSNKYFSNIH 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-142-590B-24
```

ð 셤

```
Search completed: June 20, 2005, 14:22:20 Job time : 17.15 secs
                                                                                                                        TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                  9 NNHFFNHHK 17
                                                                                                                                                                                                                                                                                                                                                       1 NNHAFOEHE 9
                                                                                                                                                                                                     US-08-166-195A-26
                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WS-08-166-195A-26
Sequence 26, Application US/08166195A
Sequence 26, Application US/08166195A
Patent No. 54807D0:
GENERAL INFORMATION:
APPLICANT: Widgren, Escher E.
APPLICANT: Widgren, Richard T.
APPLICANT: Lea, Isabel
ITILE OF INVENTION: Sperm Antigen Corresponding to a
TITLE OF INVENTION: Sperm Antigen Corresponding to a
TITLE OF INVENTION: Sperm Zona Binding Protein Autoantigenic Epitope
NUMBER OF SEQUENCES: 51
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kenneth D. Sibley
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 35; DB 3; Length 20; Pred. No. 44;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 32.4%; Score 35; DB Best Local Similarity 46.2%; Pred. No. 44; Matches 6; Conservative 2; Mismatches
                                                                                COMPUTER READABLE FORM:
MADIUM TYPE: Floppy disk
COMPUTER: BE PROPRY disk
COMPUTER: BE PROPRY disk
COMPUTER: BE PROPRY DISK
COMPUTER: BE PROPRY MS-DOS
SOFTWARE: ASCIT Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/142,590B
FILING DATE: 25-OCT-1993
ATTONEY/AGENT INFORMATION:
NAME: Myers, Paul L.
REGISTRATION NUMBER: 35,965
REGISTRATION NUMBER: 35,965
REFERENCE/DOCKET NUMBER: MGP-009CP
TELEFAX: (617) 227-7400
TELEFAX: (617) 227-7401
TELEFAX: (617) 227-7591
INFORMATION FOR SEO ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acids
TYPE: amino acids
TOPOLOGY: linear
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET: P.O. Box 34009
CITY: Charlotte
STATE: No. 5480799th Carolina
COUNTRY: USA
       STREET: 20 COLYY. Boston CTIY: Boston TATE: Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4 GVTISNNHFFNHH 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4 GTCVSNKYFSNIH 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-142-590B-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                               Query Match 30.6%; Score 33; DB 1; Length 10; Best Local Similarity 55.6%; Pred. No. 42; Matches 5; Conservative 1; Mismatches 3; Indels
REFERENCE/DOCKET NUMBER: 5470
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-881-3140
TELEFAX: 919-881-3175
INFORMATION FOR SEQ ID NO: 26:
SEQUENCE CHARACTERISTICS:
```

June 20, 2005, 14:14:01; Search time 53.45 Seconds (without alignments) 143.678 Million cell updates/sec OM protein - protein search, using sw model Run on:

US-09-202-464-22

Perfect acore:

115 1 HFFNHHKVMLLGHSDIYSDD 20 Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

1714042 seqs, 383979560 residues Searched:

332641 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 20

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database

Published Applications AA:*

1: \cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
2: \cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
3: \cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
4: \cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
5: \cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
6: \cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
7: \cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:*
8: \cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
9: \cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
11: \cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*
11: \cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*
11: \cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*
12: \cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
13: \cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
14: \cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
15: \cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
16: \cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
17: \cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
18: \cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
19: \cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
19: \cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
10: \cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
11: \cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
12: \cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
13: \cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
14: \cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
15: \cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
16: \cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result

Sequence 53, Appl Sequence 54, Appl Sequence 52, Appl Sequence 13, Appl Sequence 11, Appl Sequence 75, Appl Sequence 75, Appl Sequence 36, Appl Sequence 36, Appl Sequence 6, Appl Description US-10-354-240-53 US-10-354-240-54 US-10-354-240-52 US-09-864-761-34373 US-09-839-497A-11 US-10-354-698-11 US-10-775-965-75 US-09-734-520-36 US-10-012-034A-36 US-10-420-564-6 Query Match Length DB 666.1 622.6 445.2 622.6 227.3 827.3 827.8 227.8 227.8 8.72 227.8 Score 92232323622

,	6	Seguence 2968, Ap	a 296E	Sequence 33, Appl	1045	1046	1045,	Sequence 1046, Ap	1045,	1046,	1045,	1046,	1045,	1046,	1045,	104	1045,	1046,	5, 4	H	19,	4	4,	4,	734	3,	735	736	13,	9 13,	17,	18	227	e 226
000	02-10-8/0-388-6	-60-SD	15 US-10-293-418-2968	LS US-10-414-583-33	US-10-6	15 US-10-609-217-1046	US-10-63	10-6	US-10-6	US-10-651-723-104	US-10-6	US-10-645-761-104	US-10-6	US-10-6	LS US-10-653-048-1045	LS US-10-653-048-1046	18 US-10-645-784-1045	US-10-645-784-104	3 US-08-981-490B-5	14 US-10-293-086-129	US-10-1	US-10-775-	0-775	US-10-191-		3 US-08-775-765-3	0-226-629A-73	14 US-10-226-629A-736	4-	14 US-10-354-698-13	US-10-467-39	-10-467-396-1	US-10-468-370-22	15 US-10-468-370-228
-	2	.7				0.		0.	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	_	5	9	. 8	. 8	8	6	~	0	0.		9	е П	13 1	9	9
	77.	31 27.	31 27.0	31 27.0	31 27.0	1 27.0	31 27.0	19 31 27.0 2	31 27.0	31 27.0	31 27.0	3 31 27.0	31 27.0	5 31 27.0	6 31 27.0	7 31 27.0	1 27.0	9 31 27.0	0 30 26.1	0 26.1	2 30 26.1	0 26.1	30 26.1	0 26.1	30 26.1	0 26.1	30 26.1	30 26.1	29 25.2	9 25.2	9 25.2	43 29 25.2 1	9 25.2	9 25.2

ALIGNMENTS

US-10-354-240-53

Sequence 53, Application US/10354240

Publication No. US20030185847A1

GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Dairiki, Kazuo

APPLICANT: Dairiki, Kazuo

APPLICANT: Wino, Kohauke

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION NUMBER: US/10/354,240

CURRENT APPLICATION NUMBER: US 09/142,524

PRIOR FILING DATE: 1998-09-09

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: Patentin version 3.1

LENGTH: 15

TYPE: PATE

ORGANISM: Cryptomeria japonica

FRATURE:

NAMED OF THE PATENTE APPLICATION NUMBER: US/10/20140

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 53

LENGTH: 15

TYPE: PATENTE APPLICATION NUMBER: US/10/20140

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 53

LENGTH: 15

TYPE: PATENTE APPLICATION NUMBER: US/10/20140

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 53

LENGTH: 15

TYPE: PATENTE APPLICATION NUMBER: US/10/20140

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 53

LENGTH: 15

TYPE: PATENTE APPLICATION NUMBER: US/10/20140

NUMBER OF SEQ ID NOS: 174

SEQ ID NOS: 174

SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: 174

SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: 174

SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: 174

SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: 174

SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: 174

NUMBER OF SEQ ID NOS: NAME/KEY: MISC_FRATURE
1.CCATION: (1)...(15)
2.OTHER INFORMATION: Cryjl peptide, Figure 1, Row 39
MS-10-354-240-53

Gaps ö Query Match 66.1%; Score 76; DB 14; Length 15; Best Local Similarity 92.9%; Pred. No. 0.00018; Matches 13; Conservative 0; Mismatches 1; Indels

```
Sequence 55, Application US/10354240
; Sequence 55, Application US/10354240
; Publication No. US20030185847A1
; Fublication No. US20030185847A1
; Fublication No. US20030185847A1
; APPLICANT: Sone, Toshio
    APPLICANT: Wama, Akinori
    APPLICANT: Iwama, Akinori
    APPLICANT: Iwama, Akino
    APPLICANT: Wama, Akino
    PRIOR PAPLICATION NUMBER: DCT/JP97/00740
    PRIOR APPLICATION NUMBER: DCT/JP97/00740
    PRIOR APPLICATION NUMBER: US 09/142,524
    PRIOR APPLICATION NUMBER: US 09/142,524
    NUMBER OF SEQ ID NOS: 174
    SOFTWARE: PatentIn version 3.1
    TENCH NO 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NESOUR S

US-09-864-761-34373

US-09-864-761-34373

Sequence 34373, Application US/09864761

Sequence 34373, Application US/09864761

Sequence 34373, Application US/09864761

Sequence 34373, Application US/09864761

APPLICANT: Penn, Sharron G

APPLICANT: Panzel, David R.

APPLICANT: Rank, David R.

APPLICANT: Chen, Wensheng

TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USFUL FOR TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USFUL STILE OF INVENTION: WONBER: US/09/864,761

CURRENT APPLICATION NUMBER: US 60/180,312

PRIOR APPLICATION NUMBER: US 60/207,456

PRIOR PILING DATE: 2000-05-26

PRIOR PILING DATE: 2000-08-03

PRIOR PLING DATE: 2000-08-03

PRIOR APPLICATION NUMBER: US 60/236,359

PRIOR APPLICATION NUMBER: US 60/236,359

PRIOR APPLICATION NUMBER: US 60/236,359

PRIOR PILING DATE: 2000-109-27
                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                           .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ..
0
                45.2%; Score 52; DB 14; Length 15; 100.0%; Pred. No. 0.65; cive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
40.0%; Score 46; DB 14;
Best Local Similarity 80.0%; Pred. No. 5.1;
Matches 8; Conservative 0; Mismatches 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Cryptomeria japonica
                   Query Match
Best Local Similarity 100.
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11 LGHSDIYSDD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 LGHDDAYSDD 10
                                                                                                                                                                  7 FFNHHKVML 15
                                                                                                                                   10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: MISC_FEATURE
                                                                                                                                2 FFNHHKVML
                                                                                                                                   à
                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 52, Application US/10354240

| Sequence 52, Application No. US20030185847A1
| Sequence 52, Application No. US20030185847A1
| GENERAL INFORMATION:
| APPLICANT: Sone, Toshio
| APPLICANT: Name, Akinori
| APPLICANT: Wame, Akinori
| APPLICANT: Iwame, Akinori
| PRIOR PALICATION NUMBER: PCT/JP97/00740
| PRIOR PELING DATE: 1998-09-09
| NUMBER OF SEQ ID NOS: 174
| SEQ ID NO S2
| LENGTH: 15
                                                                                                                                                                                                                                              APPLICANT: Sone, Toshio

APPLICANT: Kume, Akinori

APPLICANT: Wame, Akinori

APPLICANT: Iwame, Akinori

APPLICANT: Iwame, Akiko

APPLICANT: Iwame, Akiko

APPLICANT: Iwame, Akiko

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

FILE REFERENCE: SPO-103D1

CURRENT APPLICATION NUMBER: US/10/354,240

CURRENT APPLICATION NUMBER: DS/10/354,240

PRIOR PILING DATE: 1997/00740

PRIOR PILING DATE: 1998-09-09

WOUTHER OF SEQ ID NOS: 174

SEQ ID NO 54

LENTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 62.6%; Score 72; DB 14; Length 15; Best Local Similarity 86.7%; Pred. No. 0.0007; Matches 13; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; LOCATION: (1). (15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 40
US-10-354-240-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              iocation: (1) (15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 38
US-10-354-240-52
                                                                                                                                                                                ; Sequence 54, Application US/10354240; Publication No. US20030185847A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6 HKVMLLGHSDIYSDD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 HKVMLLGHDDAYSDD 15
                                 2 FFNHHKVMLLGHDD 15
2 FFNHHKVMLLGHSD 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
NAME/KEY: MISC_FEATURE
                                                                                                                                                             US-10-354-240-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 3
US-10-354-240-52
ઠે
                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
```

```
APPLICANT: Pallage, David C.
APPLICANT: Pallage, David C.
APPLICANT: Pallage, David C.
TITLE OF INVENTION: Coding Sequence for Protein Phosphatase Methylesterase,
TITLE OF INVENTION: Recombinant DNA Molecules and Methods
FILE REPERBYCE: Docket No. US20030186416A1 105-97B
CURRENT FILING DATE: 2003-01-29
FRIOR FILING DATE: 1998-04-17
PRIOR FILING DATE: 1998-04-17
PRIOR FILING DATE: 1999-04-16
PRIOR FILING DATE: 1999-04-16
PRIOR FILING DATE: 2001-04-20
NUMBER OF SEQ ID NOS: 17
SOFTWARE: Patentin Ver. 2.0
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 75, Application US/10775965
; Sequence 75, Application US/10775965
; Publication No. US20040209808A1
; GENERAL INFORMATION:
; APPLICANT: Brietol-Myears Squibb Company
; APPLICANT: Rornacker, Michael
; TITLE OF INVENTION: MODULATORS OF HUMAN G-PROTEIN COUPLED RECEPTORS
; FILE REFREBRUE: D0286 NP
; CURRENT APPLICATION NUMBER: US/10/775,965
; CURRENT FILING DATE: 2004-02-10
; PRIOR APPLICATION NUMBER: U.S. 60/446,655
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: Patentin Version 3.2
; SEQ ID NO 75
                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                             Score 32; DB 9; Length 9;
Pred. No. 1.5e+06;
2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 32; DB 14;
Pred. No. 1.5e+06;
2; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 11, Application US/10354698 Publication No. US20030186416A1 GENERAL INFORMATION: APPLICANT: Pallas, David C.
                                                                                                                                                                                             Query Match
Best Local Similarity 71.4%;
Matches 5; Conservative 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27.8%;
71.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; OTHER INFORMATION: peptide US-10-775-965-75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 71.4
Matches 5; Conservative
            ; SEQ ID NO 11
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-839-497A-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                          8 VMLLGHS 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8 VMLLGHS 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       :||:|||
1 IMLIGHS 7
                                                                                                                                                                                                                                                                                                                                                             :||:|||
1 IMLIGHS 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -10-354-698-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-354-698-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-775-965-75
                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Pallas, David C.
APPLICANT: Pallas, David C.
APPLICANT: Pallas, David C.
APPLICANT: DL, Xianxing
TITLE OF INVENTION: Coding Sequence for Protein Phosphatase Methylesterase,
TITLE OF INVENTION: Recombinant DNA Molecules and Methods
FILE REPERENCE: Docket No. U320020107374A1 105-97A
CURRENT FILING DATE: 2001-04-20
PRIOR APPLICATION NUMBER: 60/082,202
PRIOR APPLICATION NUMBER: 60/082,202
PRIOR APPLICATION NUMBER: 09/293,322
PRIOR APPLICATION NUMBER: 09/293,322
PRIOR PILING DATE: 1999-04-16
NUMBER OF SEQ ID NOS: 17
SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTHER INFORMATION: EXPRESSED IN B1474, SIGNAL = 1.2

OTHER INFORMATION: EXPRESSED IN B1474, SIGNAL = 2.1

OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 2.1

OTHER INFORMATION: EXPRESSED IN HBLAD LIVER, SIGNAL = 1.5

OTHER INFORMATION: EXPRESSED IN HBLA, SIGNAL = 1.3

OTHER INFORMATION: EXPRESSED IN HBLA, SIGNAL = 1.5

OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.5

OTHER INFORMATION: EXPRESSED IN BLACENTA, SIGNAL = 1.5

OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.3

OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3

OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.3

OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.4

US-09-864-761-34373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 33; DB 9; Length 18;
Pred. No. 5.2e+02;
4; Mismatches 4; Indels
PRIOR APPLICATION NUMBER: PCT/USO1/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/USO1/00667
PRIOR APPLICATION NUMBER: PCT/USO1/00664
PRIOR APPLICATION NUMBER: PCT/USO1/00669
PRIOR APPLICATION NUMBER: PCT/USO1/00669
PRIOR PILING DATE: 2001-01-30
PRIOR PILING DATE: 2001-01-30
PRIOR PILING DATE: 2001-01-30
PRIOR PLING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/USO1/00663
PRIOR PILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/USO1/00663
PRIOR PILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/USO1/00670
PRIOR PILING DATE: 2001-01-30
PRIOR PILING DATE: 2000-01-30
PRIOR PILING DATE: 2000-01-30
PRIOR PILING DATE: 2000-00-31
PRIOR PILING DATE: 2000-00-30
PRIOR PILING DATE: 2000-00-31
PRIOR PILING DATE: 2000-00-31
PRIOR PILING DATE: 2000-00-31
PRIOR PILING DATE: 2000-00-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: MAP TO AC007914.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-839-497A-11

Sequence 11, Application US/09839497A

; Patent No. US20020107374A1

; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 HFFNHHKVMLLG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | :|| : ::|
7 HHHHHVITIIG 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 4; Conserva
```

셤

ઠે 셤

```
Sequence 6, Application US/10870399
; Bublication No. US2005010669841
; GENERAL INFORMATION:
; APPLICANT: Cihak, Paul L.
; APPLICANT: Cihak, Paul L.
; APPLICANT: Cihak, Paul L.
; APPLICANT: Charpf Jr., Lewis G.
TITLE OF INVENTION: Recombinant Kid Pregastric Esterase and Methods for TITLE OF INVENTION: Production and Use
; FILE REFERENCE: IFF-0009
; CURRENT APPLICATION NUMBER: US/10/420,564
; PRIOR APPLICATION NUMBER: US/10/420,564
; PRIOR FILING DATE: 2002-09-24
; PRIOR FILING DATE: 2002-09-24
; PRIOR FILING DATE: 1998-11-05
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO S. 7
; SEQ ID NO S. 7
                                                                                                                                                                                US-10-420-564-6

| Sequence 6, Application US/10420564 |
| Sequence 6, Application US/10420564 |
| Sequence 6, Application US/10420564 |
| Sequence 6, Application No. US20040001819A1 |
| GENERAL INFORMATION: Clark, Paul, L. |
| APPLICANT: Scharge Jr. Lewis G. |
| TITLE OF INVENTION: Recombinant Kid Pregastric Esterase and Methods for TITLE OF INVENTION: Production and Use |
| FILE REFERENCE: IFF-0009 |
| FILE REFERENCE: 1FF-009 |
| FILE REPLICATION NUMBER: US/10/420,564 |
| PRIOR APPLICATION NUMBER: US/91/043,665B |
| PRIOR FILING DATE: 1998-11-05 |
| NUMBER OF SEQ ID NOS: 7 |
| SOFTWARE: PatentIn Ver. 2.0 |
| SEQ ID NO 6 |
| LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
PGGANISM: Artificial Sequence
PEATURE:
OTHER INFORMATION: Description of Artificial Sequence: A modified
OTHER INFORMATION: polyHis-enterokinase polypeptide sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ) OTHER INFORMATION: Description of Artificial Sequence: A modified ; OTHER INFORMATION: polyHis-enterokinase polypeptide sequence US-10-420-564-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ..
7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27.8%; Score 32; DB 15; Length 20;
40.0%; Pred. No. 8.2e+02;
tive 1; Mismatches 9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 HHHHHHHHHSSGHID--DDD 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 HFFNHHKVMLLGHSDIYSDD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match
Best Local Similarity 40.0.
Best Local Similarity 40.0.
                                   2 FFNHHKVMLLG 12
                                                                                    7 FTCHHVVRLLG 17
                                   ð
                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-012-034A-36

Sequence 36, Application US/10012034A

Publication No. US20020137141A1

GENERAL INFORMATION:

APPLICANT: Ben-Sasson, Shmuel

TITLE OF INVENTION: SHORT PEPTIDES FROM THE A-REGION OF

TITLE OF INVENTION: PROTEIN KINASES WHICH SELECTIVELY MODULATE PROTEIN KINASE

TITLE OF INVENTION: ACTIVITY

FILE REPREMENCE: BEN-SASSON-S-A

CURRENT FILING DATE: 2001-12-11

PRIOR APPLICATION NUMBER: US/10/012,034A

PRIOR APPLICATION NUMBER: 09/734,520

PRIOR PILING DATE: 2000-12-11

NUMBER OF SEQ ID NOS: 133

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 36

LENGTH: 18
                                                                                                                                                                                                                                                                                          Sequence 36, Application US/09734520
Patent No. US20020115173A1
GENERAL INFORMATION:
APPLICANT: Ben-Sasson, Shmuel
TITLE OF INVENTION: SHORT PEPTIDES FROM THE A-REGION OF
TITLE OF INVENTION: PROTEIN KINASES WHICH SELECTIVELY MODULATE PROTEIN KINASE
TITLE OF INVENTION: ACTIVITY
FILE REFERENCE: 1242.2003-000
CURRENT PAPLICATION NUMBER: US/09/734,520
CURRENT FILING DATE: 2000-12-11
NUMBER OF SEQ ID NOS: 122
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 36
LENGTH: 18
                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                 Gaps
                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 32; DB 13; Length 18;
Pred. No. 7.3e+02;
0; Mismatches 4; Indels
        Score 32; DB 16; Length 12;
Pred. No. 4.8e+02;
2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27.8%; Score 32; DB 9; Length 18; 63.6%; Pred. No. 7.38+02; tive 0; Mismatches 4; Indels
          27.8%;
50.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 27.8%;
Best Local Similarity 63.6%;
Matches 7; Conservative
Query Match
Best Local Similarity 50.0
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 63.6
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 FFNHHKVMLLG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7 FTCHHVVRLLG 17
                                                                                                                                                3 NSHKIWMLPH 12
                                                                                                               4 NHHKVMLLGH 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTHER INFORMATION: IRK
US-09-734-520-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE: OTHER INFORMATION: IRK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; NAME/KEY: AMIDATION
; LOCATION: (0)...(18)
US-10-012-034A-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
NAME/KEY: MYRISTATE
LOCATION: (1)...(0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Unknown
                                                                                                                                                                                                                                                                       US-09-734-520-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
```

g

ò

```
Search completed: June 20, 2005, 15:55:15
Job time : 54.45 secs
; PRIOR FILING DATE: 2000-06-16; NUMBER OF SEQ ID NOS: 3247; SEQ ID NO 2968; LENGTH: 17; TYPE: PRT; ORGANISM: Homo sapiens US-10-293-418-2968
                                                                                                                                                                                     Query Match 27.0%;
Best Local Similarity 50.0%;
Matches 6; Conservative ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4 NHHKV----MLLGHSD 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 SHOKVTLLQLLLGHKN 17
                                                                                                                                                                                                                                                                                                           9 MLLGHSDIYSDD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       , ORGANISM: Homo sapiens
US-10-414-583-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ద
                                                                                                1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                Gaps
                                                                                                                                                                                                                                               RESULT 13
US-09-880-748-2968
; Sequence 2968 Application US/09880748
; Publication No. US20030059937A1
; GENERAL INFORMATION:
    APPLICANT: Ruben et al.
    TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
; FILE REFERENCE: PF523
    CURRENT APPLICATION NUMBER: US/09/880,748
; CURRENT FILING DATE: 2001-06-15
; PRIOR PELICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR FILING DATE: 2001-03-21
; PRIOR FILING DATE: 2001-03-21
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PATENTIN VET: 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 14

US-10-293-418-2968

Sequence 2966, Application US/10293418

Publication No. US2003022396A1

GENERAL INFORMATION:

TILE REFERENCE: PFS23P2

CURRENT APPLICATION NUMBER: US/10/293,418

CURRENT PILLING DATE: 2002-11-27

PRIOR APPLICATION NUMBER: 60/331,469

PRIOR FILING DATE: 2001-11-16

PRIOR PLING DATE: 2001-12-19

PRIOR APPLICATION NUMBER: 60/340,817

PRIOR APPLICATION NUMBER: 60/293,499

PRIOR PILING DATE: 2001-06-15

PRIOR PLING DATE: 2001-05-25

PRIOR PLING DATE: 2001-05-25

PRIOR PLING DATE: 2001-03-21

PRIOR PLING DATE: 2001-03-21

PRIOR PLING DATE: 2001-03-21

PRIOR PLING DATE: 2001-03-16

PRIOR PLING DATE: 2001-03-11

PRIOR PLING DATE: 2001-03-11

PRIOR PLING DATE: 2001-03-11

PRIOR PLING DATE: 2001-03-11

PRIOR PLING DATE: 2001-03-16

PRIOR PLING DATE: 2001-03-16

PRIOR PLING DATE: 2001-01-17

PRIOR APPLICATION NUMBER: 60/270,319
                                                                                                5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 10; Length 17;
                                           Query Match 27.8%; Score 32; DB 17; Length 20
Best Local Similarity 40.0%; Pred. No. 8.2e+02;
Matches 8; Conservative 1; Mismatches 9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27.0%; Score 31; DB 10;
50.0%; Pred. No. 9.7e+02;
tive 2; Mismatches 4;
                                                                                                                                                                    1 HFFNHHKVMLLGHSDIYSDD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity 50.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9 MLLGHSDIYSDD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              : | |: | | | | 5 ILTGYSDYYGMD 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-880-748-2968
  US-10-870-399-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
```

```
US-10-414-583-33

US-10-414-583-33

Sequence 33, Application US/10414583

Sequence 33, Application Wolfolds William Work Wolfolds William Work Wolfolds William Work William Wore, Jamie Marie Ramussen

APPLICANT: Geletinger, Timothy Ross

TITLE OF INVENTION: METHOD FOR OBTAINING THE BINDING AFFINITIES OF A PEPTIDE LIBRARY

TITLE OF INVENTION: TO A PROTEIN

TITLE OF INVENTION NUMBER: US/10/414,583

CURRENT APPLICATION NUMBER: G0/372,952

PRIOR FILING DATE: 2002-04-15

PRIOR FILING DATE: 2002-04-15

PRIOR FILING DATE: 2002-04-15

SOFTWARE: Patentin version 3.2

SEQ ID NO 33

LENGTH: 20

TENGTH: 20
                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ï
                                                               Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gapa
                                                               ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4,
Score 31, DB 15, Length 17;
Pred. No. 9.7e+02;
2; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 27.0%; Score 31; DB i5; Length 20; Best Local Similarity 43.8%; Pred. No. 1.2e+03; Matches 7; Conservative 3; Mismatches 2; Indels
```

THIS PAGE BLANK (USPTO)

```
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
```

OM protein - protein search, using sw model

Run on:

June 20, 2005, 14:04:11; Search time 16.15 Seconds (without alignments) 92.445 Million cell updates/sec

US-09-202-464-22

115 1 HFFNHHKVMLLGHSDIYSDD 20 Title: Perfect score:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table: Sequence:

513545 seqs, 74649064 residues Searched:

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 20

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Issued Patents AA:* Database :

1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES	Length DB ID Description	20 3 US-08-467-023-45 Sequence 45, Appl	4 US-09-142-524D-53 Sequence 53,	4 US-09-142-524D-54 Sequence 54,	52,	3 US-08-467-023-44 Sequence 44,	-09-142-524D-55 Sequence 55,	3 US-08-467-023-46 Sequence 46,	19 4 US-09-121-211-4 Sequence 4, Appli	3 US-09-293-322C-11 Sequence 11,	4 US-09-839-497A-11 Sequence 11,	4 US-09-121-211-10 Sequence 10,	3 US-09-186-489-6 Sequence 6,	4 US-10-043-665B-6 Sequence 6,	20 1 US-07-678-974D-60 Sequence 60,	0 2 US-08-543-020-12 Sequence 12,	0 2 US-08-945-168-66 Seguence 66,	20 3 US-08-542-051-21 Sequence 21,	20 4 US-09-428-082B-1045 Sequence 1045	20 4 US-09-428-082B-1046 Sequence 104	15 2 US-08-945-848-2 Seguence 2,	10 4 US-08-981-490B-5		11 4 US-08-030-175-13 Sequence 13,	11 4 US-08-030-175-13 Sequence 1, 14 2 US-08-658-639-1 Sequence 1,	14 US-08-030-175-13 Sequence 1, 14 2 US-08-658-639-1 Sequence 1, 14 3 US-08-944-604-1 Sequence 1,	11 4 US-08-030-175-13 14 2 US-08-688-639-1 14 3 US-08-944-604-1 15 1 US-08-306-546C-19
DI 0S-08	86	-0		-09-1	-09-14	-08-46	-09-1	-08-4	-60-	-66	8-60-			-10-	US-07-	-80-SD	-80-SD	US-08	60-SN	0S-09	US-08-	110 - 00	200	80-SD	80-SD 0S-08	0.50 0.50 0.50 0.50	80.00
		20	15	15	15	20	15	20	19	6	6	15	20	20	20	20	20	20	20	20	15	10		11	11	1 1 1 4 4	11 14 15
	Query Match	85.2	66.1	62.6	45.2	45.2	40.0	40.0	33.9	27.8	27.8	27.8	27.8	27.8	27.0	27.0	27.0	27.0	27.0	27.0	26.5	26.1		26.1	26.1 26.1	26.1 26.1 26.1	9999
	Score	86	92	72	52	52	46	46	39	32				32	31	31	31	31	31	31	30.5	30		30	30 8	9 9 9	0000
	Result No.	п	7	m	4	ហ	9	7	8	o	10	11	12	13	14	15	16	17	18	19	20	21		22	55 53 53	2 3 3 2 4 3	2 2 2 2 2 4 3 5

e 12, Appl e 14, Appl e 14, Appl e 14, Appl e 13, Appl e 15, Appl e 103, Appl e 103, Appl e 75, Appl e 75, Appl e 75, Appl e 75, Appl e 75, Appl e 75, Appl e 76, Appl e 6, Appl e 75, Appl
sednence seane sea
US-09-019-346A-12 US-09-433-353-19 US-09-433-352-19 US-09-293-322C-13 US-09-293-322C-14 US-09-293-322C-14 US-09-293-32C-14 US-09-293-32C-14 US-09-293-22C-14 US-09-218-176-40 US-09-440-781-76 US-09-440-781-79
$\dots \\$
1122 1132 1132 1133 1132 1133 1133 1133
22 22 22 22 22 22 22 22 22 22 22 22 22
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

ALIGNMENTS

```
APPLICANT: Pollock, Joanne;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian R.;
APPLICANT: Bond, Julian R.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Ruo, Mei-Chang;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Braven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Appanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION:
                          ; Sequence 45, Application US/08467023 ; Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 aming acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ZIP: 02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY:
JS-08-467-023-45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY:
```

```
APPLICANT: Some, Toshio
APPLICANT: Sume, Akinori
APPLICANT: Mame, Akinori
APPLICANT: Mame, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Mama, Akiko
APPLICANT: Wino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TILE REFERENCE: SPO-103
CURRENT PAPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: PCT/JP97/00740
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 52
                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Bond, Julian F.;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mel H.;
APPLICANT: Exuer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Title OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Allergenic Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
                                                        ; DB 4; Leus-, ... 0.00016; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              B: ImmuLogic Pharmaceutical Corporation, Inc. 610 Lincoln St
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; LOCATION: (1). [(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 38
US-09-142-524D-52
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 40 US-09-142-524D-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 45.2%; Score 52; DB 4; Best Local Similarity 100.0%; Pred. No. 0.16; Matches 9; Conservative 0; Mismatches
                                                                                                                      Mismatches
                                                                      Score 72;
Pred. No.
                                                                                                                                                                                                                                                                                                                     . Sequence 52, Application US/09142524D
; Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; Sequence 44, Application US/08467023 ; Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                      Query Match
Best Local Similarity 86.7%;
Matches 13; Conservative
                                                                                                                                                                6 HKVMLLGHSDIYSDD 20
                                                                                                                                                                                                           1 HKVMLLGHDDAYSDD 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7 FFNHHKVML 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 FFNHHKVML 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE:
                                                                                                                                                                                                                                                                                                         US-09-142-524D-52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 5
US-08-467-023-44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET:
                                                                                                                                                                     ઠે
                                                                                                                                                                                                           q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-00-12-524D-54

US-00-12-12-524D-54

Sequence 54, Application US/09142524D

Patent No. 6719976

GENERAL INFORMATION

APPLICANT: Sone, Toshio

APPLICANT: Dairki, Kazuo

APPLICANT: Wama, Akiko

CURRENT AFLICANT: NOWER: US/09/142,524D

CURRENT APPLICATION NUMBER: US/09/142,524D

CURRENT APPLICATION NUMBER: PT/JP97/00740

PRIOR FILING DATE: 1997-03-10

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 54

LENGTH: 15

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Kume, Akinori
APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Sone, Akinori
APPLICANT: Iwama, Akino
APPLICANT: Iwama, Akino
APPLICANT: Iwama, Akino
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
PRIOR APPLICATION NUMBER: US/09/142,524D
PRIOR APPLICATION NUMBER: PGT/JP97/00740
PRIOR PILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 53
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                     ö
                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   / Match 66.1%; Score 76; DB 4; Length 15; Local Similarity 92.9%; Pred. No. 3.9e-05; es 13; Conservative 0; Mismatches 1; Indels
                                                   85.2%; Score 98; DB 3; Length 20; 89.5%; Pred. No. 2.7e-08; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCATION: (1).7(15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 39
US-09-142-524D-53
                                                                                                                                                                                                                                                                                                         Sequence 53, Application US/09142524D Patent No. 6719976
                                                                                                                                             2 FFNHHKVMLLGHSDIYSDD 20
                                                                                                                                                                          2 FFNHHKVMLLGHDDAYSDD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 FFNHHKVMLLGHDD 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2 FFNHHKVMLLGHSD 15
                                                                           Best Local Similarity 89.5
Matches 17; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (1)..(15)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                          RESULT 2
US-09-142-524D-53
         US-08-467-023-45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local S
Matches 13
                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
```

```
Gaps
                                                                                                    APPLICANT: Griffeth, Irwin J.;
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Bond, Julian F.;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Exley, Mark M.;
APPLICANT: Steven F.
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SKQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 40.0%; Score 46; DB 3; Length 20; Best Local Similarity 80.0%; Pred. No. 1.7; Matches 8; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATA:
APPLICATION DATA:
FILING DATE: DECEMBER: 08/350,225
FILING DATE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Shingh, Dhirendra P.

APPLICANT: Chylack, Leo T.

TITLE OF INVENTION: Lens Epithelial Cell Derived Growth

TITLE OF INVENTION: Factor

FILE REFERENCE: B08001/7116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 4, Application US/09121211 Patent No. 6750052
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE: (617) 227-7400
TELERAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11 LGHSDIYSDD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 LGHDDAYSDD 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-467-023-46
                                                                                                JS-08-467-023-46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Nume, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Dairiki, Kazuo
APPLICANT: Twama, Akiko
APPLICANT: Sone Toptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT APPLICATION NUMBER: 1998-09-09
PRIOR APPLICATION NUMBER: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SEQ ID NO SS
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 40.0%; Score 46; DB 4; Length 15; Best Local Similarity 80.0%; Pred. No. 1.2; Matches 8; Conservative 0; Mismatches 2; Indels
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM:
OPERATING SYSTEM:
OPERATING SYSTEM:
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REGISTRATION NUMBER: 38,872
REGISTRATION NUMBER: 38,872
REGISTRATION NUMBER: 38,872
REGISTRATION NUMBER: 327-7400
TELECOMUNICATION INFORMATION:
TELEPHONE: (617) 227-740
TELEFAX: (617) 227-740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; LOCATION: (1) _(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 41
US-09-142-524D-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%; Prec. ...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 55, Application US/09142524D Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Cryptomeria japonica
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11 LGHSDIYSDD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 LGHDDAYSDD 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 FFNHHKVML 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12 FFNHHKVML 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                amino acid
GY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ropology:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JS-09-142-524D-55
```

g

ઠે

ö

g

Gaps

ö

0; Indels

ઠે g

```
RESULT 12
US-09-186-489-6
i Sequence 6, Application US/09186489
patent No. 6375947
GENERAL INFORMATION:
i APPLICANT Sholen, Paul L.
i APPLICANT: Charpf Jr., Lewis G.
i TITLE OF INVENTION: Purified Recombinant Kid Pregastric Esterase, and
TITLE OF INVENTION: Processes for its Production and Use
TITLE REPERENCE: 5499/3
CURRENT APPLICATION NUMBER: US/09/186,489
CURRENT APPLICATION NOWNER: US/09/186,489
CURRENT APPLICATION NOW: 2.0
SOFTWARE: Patentin Ver. 2.0
SOFTWARE: Patentin Ver. 2.0
SOFTWARE: PRIMED THE CONTRACT OF SEQUENCE SEQU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE: OTHER INFORMATION: Description of Artificial Sequence: A modified OTHER INFORMATION: polyhis-enterokinase polypeptide sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 11
US-09-121-211-10
US-09-121-211-10
Sequence 10, Application US/09121211
Fatent No. 6750052
GENERAL INFORMATION:
APPLICANT: Shingh, Dhirendra P.
APPLICANT: Shingh, Dhirendra P.
TITLE OF INVENTION: Lens Epithelial Cell Derived Growth
FILE REFERENCE: BO800/116
CURRENT FILING DATE: 1998-07-23
FARLIER APPLICATION NUMBER: U.S. 60/053,549
FARLIER FILING DATE: 1997-07-23
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PASESEQ for Windows Version 3.0
SEQ ID NO 10
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 32; DB 4; Length 15; Pred. No. 1.5e+02;
                                                                                                                                                                                   Score 32; DB 4; I
Pred. No. 4.1e+05;
2; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1; Mismatches
                                                                                                                                                                                       27.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 42.9%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2 FFNHHKVMLLGHSD 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 71.4

S: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Homo Sapiens
           ; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-839-497A-11
                                                                                                                                                                                                                                                                                                                                  8 VMLLGHS 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; NAME/KEY: PEPTIDE
; LOCATION: (1)...(15)
US-09-121-211-10
                                                                                                                                                                                                                                                                                                                                                                       :||:|||
1 IMLIGHS 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-186-489-6
                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WS-09-497A-11

WS-09-497A-11

Sequence 11, Application US/09839497A

Sequence 11, Application US/09839497A

Sequence 11, Application US/09839497A

Sequence 11, Application US/09839497A

Sequence 11, Application

APPLICANT: Pallas, David C.

APPLICANT: Pallas, David C.

TITLE OF INVENTION: Recombinant DNA Molecules and Methods

TITLE OF INVENTION: Recombinant DNA Molecules and Methods

TITLE OF INVENTION: Recombinant DNA Molecules and Methods

CURRENT APPLICATION NUMBER: US/09/839,497A

CURRENT FILING DATE: 1998-04-10

PRIOR FILING DATE: 1998-04-16

PRIOR APPLICATION NUMBER: 09/293,322

PRIOR APPLICATION NUMBER: 09/293,322

PRIOR SEQ ID NOS: 17

SOFTWARE PRECENTING DATE: 1999-04-16

NUMBER OF SEQ ID NOS: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-293-322C-11

Sequence 11, Application US/0929332C

Sequence 11, Application US/0929332C

Sequence 11, Application US/0929332C

GENERAL INO. 6232110

APPLICANT: Pallas, David C

APPLICANT: Pallas, David C

APPLICANT: Du, Xianxing

TITLE OF INVENTION: Recombinant DNA Molecules and Methods

TITLE OF INVENTION: Recombinant DNA Molecules and Methods

TITLE REFERENCE: 105-97

CURRENT APPLICATION NUMBER: US/09/293,322C

CURRENT FILING DATE: 1999-04-16

PRIOR FILING DATE: 1998-04-17

NUMBER OF SEQ ID NOS: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 33.9%; Score 39; DB 4; Length 19; Best Local Similarity 43.8%; Pred. No. 18; Matches 7; Conservative 2; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 32; DB 3; Length 9;
Pred. No. 4.18+05;
2; Mismatches 0; Indels
CURRENT APPLICATION NUMBER: US/09/121,211
CURRENT FILING DATE: 1998-07-23
EARLIER APPLICATION NUMBER: U.S. 60/053,549
EARLIER FILING DATE: 1997-07-23
NUMBER OF SEQ ID NOS: 22
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 FFNHHKVMLLGHSDIY 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 FFGTHETAFLGPKDIF 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 11
LENGTH: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 71.4
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Homo Sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 VMLLGHS 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 :||:|||
1 IMLIGHS 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-293-322C-11
                                                                                                                                                                                                                                                                                                                                                                   US-09-121-211-4
```

ò 셤 SEQ ID NO 11

ö

Gaps

g

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 12, Application US/08543020
; Patent No. 5854387
; GENERAL INFORMATION:
APPLICANT: Urry, Dan W.
APPLICANT: McPherson, David T.
APPLICANT: X, Jie
TITLE OF INVENTION: a Bioelastic Polymer
TITLE OF ROUGHNES:
CORRESPONDENCE: 15
CORRESPONDENCE: ADDRESS:
ADDRESSE: Cooley Godward Castro Huddleson & Tatum
STREET: 5 Palo Alto Square
STREET: CA
                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 31; DB 2; Length 20;
Pred. No. 3e+02;
3; Mismatches 5; Indels
                                                                                                                                                                                                                                                         Length 20;
                                                                                                                                                                                                                                                                                              2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/543,020
FILING DATE: 13-0CT-1995
CLASSIFICATION: 530
ATTONREY/AGENT INFORMATION:
NAME: Hughes, Melya J.
REGISTRATION NUMBER: 38,696
REFERENCE/DOCKET NUMBER: BERL-016/01US
TELEPROMONICATION INFORMATION:
TELEPROMONICATION INFORMATION:
TELEPRAK: 415 853 5070
                                                                                                                                                                                                                                                                                              1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                   TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-293-1404
TELERX: 202-872-0493
TELEX: 440 069 AIS UI
INFORMATION FOR SEQ ID NO: 60:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27.0%;
33.3%;
                                                                                                                                                                                                                                                       27.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Floppy disk
                  REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEX: 380816COOLEYPA
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                     Query Match 27.0
Best Local Similarity 66.7
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HHHHHGIQYMG 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 HFFNHHKVMLLG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: peptide HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: US
ZIP: 94306-2155
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                      12 GHSDIYSDD 20
                                                                                                                                                                                                                                                                                                                                                              3 GLYDIYADD 11
                                                                                                                                                                           amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                US-07-678-974D-60
                                                                                                                                                                                           TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-543-020-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-543-020-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH:
                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                APPLICANT: BOLOMA, Paul L.
APPLICANT: Cihak, Paul, L.
APPLICANT: Scharpf Jr., Lewis G.
TITLE OF INVENTION: Recombinant Kid Pregastric Esterase and Methods for Its TITLE OF INVENTION: Production and Use FILE REFERENCE: IFF-0009
CURRENT APPLICATION NUMBER: US/10/043,665B
CURRENT FILING DATE: 200-24
PRIOR FILING DATE: 1998-11-05
NUMBER OF SEQ ID NOS: 7
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 6
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ï
                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENA METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION: Description of Artificial Sequence: A modified OTHER INFORMATION: polyHis-enterokinase polypeptide sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2,
                  Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 27.8%; Score 32; DB 4; Length 20; Best Local Similarity 40.0%; Pred. No. 2.1e+02; Matches 8; Conservative 1; Mismatches 9; Indels
                                                     9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: U.S.A.
ZIP: 20036-3186
COMPUTER READABLE FORM:
MEDTUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/678,974D
FILING DATE: 25-JUN-1991
CLASSIFICATION: 435
            27.8%; Score 32; DB 3; I ilarity 40.0%; Pred. No. 2.1e+02; Conservative 1; Mismatches 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 60, Application US/07678974D
Sequence 60, Application US/07678974D
GENERAL INFORMATION:
APPLICANT: DILINER, JOAKIM
APPLICANT: DILINER, LENA
TITLE OF INVENTION:
NUMBER OF SEQUENCES: 67
CORRESPONDENCE ADDRESS:
ADDRESSE: BERWAN & AISENBERG
STREET: 1730 RHODE ISLAND AVENUE, N.W.,
STATE: D.C.
                                                                                                                                                                                                                          Sequence 6, Application US/10043665B
Patent No. 6582948
GENERAL INFORMATION:
                                                                                            1 HFFNHHKVMLLGHSDIYSDD 20
                                                                                                                   2 HHHHHHHHSSGHID--DDD 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 HFFNHHKVMLLGHSDIYSDD 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                нинининязентр--рр 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTORNEY/AGENT INFORMATION:
NAME: AISENBERG, Irwin M.
REGISTRATION NUMBER: 19,007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Artificial Sequence
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: U.S
                                                                                                                                                                                                                  US-10-043-665B-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-043-665B-6
```

유 ò

ô

Search completed: June 20, 2005, 14:22:20 Job time : 16.15 secs

us-09-202-464-22.rai

Tue

us-09-202-464-23.rapb

```
Sequence 56, Appl
Sequence 51, Appl
Sequence 21, Appl
Sequence 9, Appl
Sequence 57, Appl
Sequence 158, App
Sequence 218, Appl
                                                                                                                                            June 20, 2005, 14:14:01 ; Search time 53.45 Seconds (without alignments) 143.678 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/USO7_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/PCT NEW PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/USO6_PUBGOMB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/USO6_PUBGOMB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/USO6_PUBGOMB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/USO6_PUBGOMB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/USO8_PUBGOMB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/USO8_PUBGOMB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/USO8_PUBGOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
20: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
21: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
22: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      332641
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-354-240-56
US-10-354-240-55
US-09-739-466C-21
US-10-354-240-9
US-10-354-240-158
US-10-354-240-158
US-10-354-240-18
US-10-254-240-18
US-10-269-172
US-10-204-413-218
US-10-212-679-399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                 1714042 segs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                 protein search, using sw model
                                                                                                                                                                                                                                                                             103
1 LGHSDIYSDDKSMKVTVAFN 20
                                                                                                                                                                                                                                                                                                                                                     BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                   US-09-202-464-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query
Match Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   seq length: 0 seq length: 20
                                                                                                                                                                                                                                                                                                                                                          Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score
                                                                                                    •
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Minimum DB
Maximum DB
                                                                                                 OM protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Database :
                                                                                                                                                                                                                                                                                                          Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                 Searched:
                                                                                                                                                    Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Result
```

13 31.1 20 15 US-10-079-137B-399 Sequence 399, App 14 32 31.1 20 15 US-10-079-137B-400 Sequence 39, App 15 30 29.1 14 14 US-10-033-741-3B Sequence 39, App 16 30 29.1 14 15 US-10-285-393-33 Sequence 239, App 18 30 29.1 14 15 US-10-285-33-34-4 Sequence 239, App 20 30 29.1 18 16 US-10-75-640-4 Sequence 24, Appli 21 30 29.1 18 16 US-10-75-640-4 Sequence 47, Appli 22 30 29.1 18 17 US-10-135-44 Sequence 47, Appli 23 30 29.1 19 US-10-262-344-65 Sequence 47, Appli 24 30 29.1 10 US-10-486-924-1 Sequence 47, Appli 25 29 28.2 13 US-10-486-924-2 Sequence 65, Appli 26	3 31.1 20 15 US-10-079-137B-399 Sequence 39 32 31.1 20 15 US-10-079-137B-400 Sequence 40 30 29.1 14 14 US-10-033-662-39 Sequence 23 30 29.1 14 14 US-10-033-662-39 Sequence 23 30 29.1 14 15 US-10-033-662-39 Sequence 23 30 29.1 14 15 US-10-032-324-23 Sequence 24 30 29.1 18 16 US-10-75-640-4 Sequence 44 30 29.1 18 16 US-10-75-640-4 Sequence 45 30 29.1 18 17 US-10-79-1732-4 Sequence 45 30 29.1 18 17 US-10-191-732-4 Sequence 65 30 29.1 20 10 15 US-10-191-732-4 Sequence 65 29 28.2 12 20 17 US-10-191-732-4 Sequence 65 29 28.2 13 15 US-10-191-732-4 Sequence 67 29 28.2 13 15 US-10-191-732-4 Sequence 67 29 28.2 17 US-10-191-732-4 Sequence 67 29 28.2 17 US-10-191-732-4 Sequence 67 29 28.2 18 US-10-90-932-464-2 Sequence 17 US-10-92-367-15 Sequence 17 US-10-10-23-367-5 Sequence 17 US-10-10-23-367-5 Sequence 17 US-10-10-23-367-15 Sequence 17 US-10-10-23-367-15 Sequence 17 US-10-10-23-31-31 Sequence 17 US-10-10-23-31-31 Sequence 17 US-10-10-23-31-31 Sequence 17 US-10-10-23-37-13 Sequence 17 US-10-10-23-37-13 Sequence 17 US-10-10-23-37-13 Sequence 18 US-10-10-33-37-13 Sequence 18 US-10-30-30-30-30-30-30	32 31.1 20 15 US-10-079-137B-399 Sequence 39 Sequence 31 20 15 US-10-079-137B-400 Sequence 31 20 15 US-10-033-62-39 Sequence 32 31.1 20 15 US-10-033-62-39 Sequence 22 30 29.1 14 15 US-10-238-334-54 Sequence 23 30 29.1 14 15 US-10-28-394-233 Sequence 24 30 29.1 18 16 US-10-775-60-4 Sequence 27 30 29.1 18 16 US-10-78-423-4 Sequence 27 30 29.1 18 16 US-10-78-431-4 Sequence 27 30 29.1 18 16 US-10-78-431-4 Sequence 27 30 29.1 20 17 US-10-98-24-2 Sequence 27 30 29.1 20 17 US-10-98-24-2 Sequence 27 30 29.1 20 17 US-10-98-34-42 Sequence 27 30 29.1 20 17 US-10-98-34-42 Sequence 27 30 29.2 13 15 US-10-98-34-32 Sequence 27 30 28.2 18 14 US-10-92-367-5 Sequence 27 30 28.2 18 14 US-10-92-367-5 Sequence 37 30 29.1 18 14 US-10-92-367-5 Sequence 37 30 29.2 18 14 US-10-92-367-5 Sequence 18 28.2 18 14 US-10-92-367-5 Sequence 19 30 29.2 18 14 US-10-92-367-15 Sequence 19 30 29.2 18 14 US-10-98-98-98-98-98-98-98-98-98-98-98-98-98-	3 3 3 11. 20 15 US-10-079-117B-399 Sequence 39 3 29:1 1 20 15 US-10-079-117B-400 Sequence 39 3 29:1 1 4 14 US-10-033-741-39 Sequence 39 3 29:1 1 4 15 US-10-033-741-39 Sequence 39 3 29:1 1 4 15 US-10-033-741-39 Sequence 39 3 29:1 1 14 17 US-10-23-34-54 Sequence 54 3 29:1 1 18 16 US-10-75-421-4 Sequence 44 3 29:1 1 18 17 US-10-75-421-4 Sequence 45 3 29:1 1 18 17 US-10-175-421-4 Sequence 45 3 29:1 1 18 17 US-10-175-421-4 Sequence 65 3 29:1 1 18 17 US-10-175-421-4 Sequence 65 3 29:1 1 18 17 US-10-176-013-65 4 30 29:1 1 18 17 US-10-176-013-65 5 29 28:2 1 17 US-10-46-22-7 Sequence 22 5 28:2 1 17 US-10-46-22-1 Sequence 23 5 29 28:2 1 17 US-10-487-2 Sequence 23 5 29 28:2 1 17 US-10-30-147-2 Sequence 13 5 29 28:2 1 17 US-10-30-31-34 5 29 28:2 1 17 US-10-30-31-34 5 29 28:2 1 17 US-10-30-31-34 5 29 28:2 1 17 US-10-32-36-35 Sequence 13 5 29 28:2 1 18 14 US-10-022-36-13 Sequence 13 5 29 28:2 1 18 14 US-10-10-23-36 Sequence 13 5 28:2 27:7 1 19 14 US-10-10-23-37 Sequence 13 5 28:2 27:7 1 19 14 US-10-165-23-113 Sequence 13 5 28:2 27:7 1 19 14 US-10-165-23-113 Sequence 13 5 28:2 27:7 1 19 14 US-10-165-23-113 Sequence 13 5 28:2 27:7 1 19 14 US-10-165-23-113 Sequence 13 5 28:2 27:7 1 19 14 US-10-165-23-113 Sequence 11 5 28:2 27:7 1 19 14 US-10-165-23-113 Sequence 11 5 28:2 27:7 1 19 14 US-10-165-32-113 Sequence 11 5 28:2 27:7 1 19 14 US-10-165-32-113 Sequence 11 5 28:2 27:7 1 19 14 US-10-165-32-113 Sequence 11 5 28:2 27:7 1 19 14 US-10-165-32-113 Sequence 11 5 28:2 27:7 1 19 14 US-10-165-32-113 Sequence 11 5 28:2 27:2 1 18 14 US-10-165-32-113 Sequence 11 5 28:2 27:2 1 18 14 US-10-165-32-113 Sequence 11 5 28:2 27:2 1 18 14 US-10-165-32-113 Sequence 11 5 28:2 27:2 1 18 14 US-10-165-32-113 Sequence 11 5 28:2 27:2 1 18 14 US-10-165-32-113 Sequence 11 5 28:2 27:2 1 18 14 US-10-165-32-113 Sequence 11 5 28:2 27:2 1 18 14 US-10-165-32-113 Sequence 11 5 28:2 27:2 1 18 14 US-10-165-32-113 Sequence 11 5 28:2 27:2 1 18 14 US-10-165-32-113 Sequence 11 5 28	3 3 31.1 20 15 US-10-079-1378 3 2 31.1 20 15 US-10-079-1378 3 0 29.1 14 14 US-10-033-1378 3 0 29.1 14 17 US-10-033-1378 3 0 29.1 14 17 US-10-935-324- 3 0 29.1 14 17 US-10-928-394- 3 0 29.1 18 16 US-10-928-394- 3 0 29.1 18 16 US-10-928-324- 3 0 29.1 18 17 US-10-1917-32- 3 0 29.1 18 17 US-10-1917-32- 3 0 29.1 18 17 US-10-1917-32- 3 0 29.1 20 17 US-10-1917-32- 5 29 28.2 19 15 US-10-486-924- 6 29 28.2 17 10 US-10-966-925- 7 29 28.2 17 10 US-10-96-925-367- 8 28.2 27.7 19 14 US-10-092-367- 8 28.5 27.7 19 14 US-10-105-232- 9 28.5 27.7 19 14 US-10-105-232- 1 28.5 27.7 19 14 US-10-105-232- 1 28.5 27.7 19 14 US-10-186-681- 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Sequence 399, Sequence 34, Sequence 53, Sequence 54, Sequence 65, Sequence 65, Sequence 1, Sequence 1, Sequence 12, Sequence 22, Sequence 22, Sequence 22, Sequence 23, Sequence 23, Sequence 13, Sequence 118, Sequence 118, Sequence 118, Sequence 13, Sequence 118, Sequence 13,
4 32 31.1 20 15 US-10-079-137B-400 Sequence 36 5 30 29.1 14 44 US-10-033-741-38 Sequence 36 7 30 29.1 14 14 US-10-28-394-233 Sequence 54 9 29.1 14 17 US-10-28-394-234 Sequence 54 1 30 29.1 18 16 US-10-775-423-4 Sequence 54 1 30 29.1 18 16 US-10-775-423-4 Sequence 54 3 29.1 19 US-10-775-423-4 Sequence 54 3 29.1 19 US-10-776-423-4 Sequence 64 4 30 29.1 20 17 US-10-776-413-4 Sequence 65 5 29 18 1 US-10-776-413-4 Sequence 67 5 29 10 US-10-776-414-4 Sequence 67 6 29 10 US-10-486-24-1 Sequence 67 7 29 28	32 31.1 20 15 US-10-079-137B-400 Sequence 40 29.1 14 14 US-10-033-741-38 Sequence 38 30 29.1 14 14 US-10-033-741-38 Sequence 54 30 29.1 14 17 US-10-28-394-233 Sequence 54 30 29.1 18 16 US-10-28-394-54 Sequence 54 30 29.1 18 16 US-10-775-640-4 Sequence 54 30 29.1 18 16 US-10-775-640-4 Sequence 64 30 29.1 18 16 US-10-775-73-4 Sequence 65 30 29.1 18 15 US-10-775-794-65 Sequence 65 29 28.2 10 15 US-10-776-013-67 Sequence 65 29 28.2 10 15 US-10-786-294-1 Sequence 65 29 28.2 17 US-10-486-294-1 Sequence 22 28.2 17 US-10-901-897-22 Sequence 22 28.2 17 US-10-901-897-22 Sequence 23 28.2 17 US-10-901-897-22 Sequence 23 28.2 18 14 US-10-901-897-23 Sequence 24 28.2 18 14 US-10-901-897-23 Sequence 24 28.2 18 14 US-10-901-897-23 Sequence 25 28.2 18 14 US-10-902-367-15 Sequence 27 28.2 18 14 US-10-105-232-13 Sequence 27 28.2 19 14 US-10-105-232-13 Sequence 28 28.2 17 19 14 US-10-105-232-13 Sequence 28 28 27.2 19 14 US-10-105-232-13 Sequence 28 28 27.2 19 14 US-10-105-232-13 Sequence 38 27.2 18 14 US-10-105-232-13 Sequence 38 27.2 18 14 US-10-105-232-13 Sequence 38 27.2 18 14 US-10-903-367-16 Sequence 39 28 27.2 18 14 US-10-903-367-16 Sequence 38 27.2 18 US-003-367-16 Sequence 38 27.2 18 US-003-367-16 Se	32 31.1 20 15 US-10-079-117B-400 Sequence 40 30 29.1 14 14 US-10-033-741-38 Sequence 38 30 29.1 14 14 US-10-033-741-38 Sequence 51 30 29.1 14 15 US-10-285-34-23 Sequence 52 30 29.1 18 16 US-10-285-34-24 Sequence 54 30 29.1 18 16 US-10-775-40-4 Sequence 54 30 29.1 18 16 US-10-775-433-4 Sequence 64 30 29.1 18 17 US-10-775-433-4 Sequence 64 30 29.1 18 17 US-10-775-433-4 Sequence 65 30 29.1 18 17 US-10-775-433-4 Sequence 65 30 29.1 20 17 US-10-776-013-657 Sequence 65 30 29.1 20 17 US-10-86-924-1 Sequence 65 30 29.1 20 17 US-10-86-924-1 Sequence 70 29 28.2 17 US-10-86-924-1 Sequence 22 28.2 17 17 US-10-86-924-2 Sequence 22 28.2 17 17 US-10-901-87-2 Sequence 22 28.2 18 14 US-10-901-87-5 Sequence 23 28.2 18 14 US-10-901-87-5 Sequence 23 28.2 18 14 US-10-902-367-5 Sequence 18 29 28.2 18 14 US-10-902-367-5 Sequence 18 28.2 18 14 US-10-902-367-5 Sequence 18 28.2 18 14 US-10-91-313 Sequence 19 28.2 18 14 US-10-91-313 Sequence 19 28.2 18 14 US-10-105-212-118 Sequence 19 28.5 27.7 19 14 US-10-105-212-118 Sequence 19 28.5 27.7 19 14 US-10-105-212-118 Sequence 18 28.5 27.7 19 14 US-10-105-212-13 Sequence 18 28.2 17 19 US-10-105-212-13 Sequence 18 28.2 17 US-10-105-212-13 Sequence 18 27.2 18 US-10-905-96-955A-3 Sequence 18 27.2 1	31.1 20 15 US-10-079-117B-400 Sequence 36 29.1 14 14 US-10-033-741-38 Sequence 36 29.1 14 14 US-10-033-741-38 Sequence 36 29.1 14 14 US-10-033-34-54 Sequence 54 29.1 18 16 US-10-285-334-54 Sequence 54 29.1 18 16 US-10-285-334-54 Sequence 44 29.1 18 16 US-10-775-403-4 Sequence 47 29.1 18 17 US-10-191-732-4 Sequence 47 29.1 19 15 US-10-36-744-5 Sequence 65 29.1 20 15 US-10-380-147-45 Sequence 65 29.1 20 17 US-10-380-147-5 Sequence 65 29.1 20 17 US-10-380-147-5 Sequence 65 29.1 20 17 US-10-380-147-5 Sequence 22 28.2 17 US-10-380-147-5 Sequence 23 28.2 17 US-10-380-147-5 Sequence 23 28.2 17 US-10-380-147-5 Sequence 23 28.2 18 14 US-10-092-367-13 Sequence 39 28.2 18 14 US-10-092-367-13 Sequence 37.7 19 14 US-10-092-367-13 Sequence 37.7 19 14 US-10-186-681-3 Sequence 37.7 19 14 US-10-186-681-3 Sequence 37.7 19 14 US-10-186-581-3 Sequence 38.2 17.1 10 US-09-86-9557-3 Sequence 38.2 17.1 10 US-09-86-9577-3 Sequence 38.2 17.1 10 US-09-86-9577-3 Sequence 38.2 17.1 10 US-09-86-9577-3 Sequence 38.2 17.1 10 US-09-8	32 31.1 20 15 US-10-079-1378 30 29.1 14 10 US-10-033-741- 30 29.1 14 15 US-10-033-741- 30 29.1 14 15 US-10-285-394- 30 29.1 18 16 US-10-75-423- 30 29.1 18 16 US-10-75-423- 30 29.1 18 16 US-10-75-423- 30 29.1 19 17 US-10-191-732- 30 29.1 20 18 16 US-10-75-423- 30 29.1 20 18 16 US-10-75-423- 30 29.1 20 18 16 US-10-75-423- 30 29.1 20 18 16 US-10-76-0134- 30 29.1 20 18 10 US-10-86-924- 30 28.2 17 10 US-10-90180-147- 30 28.2 18 14 US-10-92-367- 30 28.2 18 14 US-10-092-367- 31 28.2 27.7 19 14 US-10-092-367- 32 28.2 19 14 US-10-052-367- 33 28 27.7 19 14 US-10-105-232- 34 28 27.7 19 14 US-10-105-232- 35 28.7 19 14 US-10-105-232- 36 27.7 19 14 US-10-105-232- 37 28 27.7 19 14 US-10-105-232- 38 27.2 18 14 US-10-105-232- 39 28.2 17 19 US-10-105-232- 30 28.5 27.7 19 US-10-186-437- 31 28.5 27.7 19 US-10-186-437- 32 27.2 18 US-10-186-437- 33 28 27.2 18 US-10-105-235- 34 US-10-092-367- 35 27.2 18 US-10-092-367-	sequence 38 sequence 38 sequence 53 sequence 47 sequence 47 sequence 17 sequence 17 sequence 22 sequence 22 sequence 23 sequence 23 sequence 23 sequence 23 sequence 13
5 30 29.1 14 14 US.10-033-741-38 Sequence 39 30 29.1 14 14 US-10-033-741-38 Sequence 39 30 29.1 14 14 US-10-286-394-233 Sequence 54 30 29.1 14 17 US-10-283-324-54 Sequence 54 30 29.1 18 16 US-10-775-640-4 Sequence 54 30 29.1 18 16 US-10-775-640-4 Sequence 64 30 29.1 18 17 US-10-191-732-4 Sequence 65 30 29.1 20 17 US-10-86-924-1 Sequence 65 30 29.1 20 17 US-10-486-924-1 Sequence 65 30 29.1 20 17 US-10-486-924-1 Sequence 65 30 29.2 13 15 US-10-486-924-1 Sequence 65 30 29.2 13 15 US-10-486-924-2 Sequence 65 30 29.2 13 15 US-10-486-924-2 Sequence 65 30 29.2 18 14 US-10-092-367-5 Sequence 67 30 29.2 18 14 US-10-092-367-15 Sequence 17 US-10-92-367-15 Sequence 18 14 US-10-092-367-15 Sequence 19 28.2 18 14 US-10-092-367-15 Sequence 19 28.2 18 14 US-10-092-367-15 Sequence 19 28.5 18 14 US-10-10-23-91 Sequence 11 28.5 27.7 19 14 US-10-108-23-13 Sequence 11 28.5 27.7 18 14 US-10-108-23-13 Sequence 11 28.5	29.1 14 14 US-10-033-741-38 Sequence 39 29.1 14 14 US-10-033-762-39 Sequence 39 29.1 14 14 US-10-285-394-39 Sequence 39 29.1 14 15 US-10-285-394-39 Sequence 49 30 29.1 18 16 US-10-283-324-54 Sequence 47 29 29.1 18 16 US-10-19-73-44 Sequence 47 29 29.1 18 17 US-10-19-73-44 Sequence 47 29 29.1 20 15 US-10-19-73-45 Sequence 65 29 29.1 20 15 US-10-19-73-45 Sequence 65 29 28.2 10 15 US-10-486-924-1 Sequence 67 29 28.2 10 15 US-10-486-924-2 Sequence 27 29 28.2 17 US-10-486-924-2 Sequence 27 29 28.2 17 US-10-486-924-2 Sequence 27 29 28.2 17 US-10-901-897-2 Sequence 27 29 28.2 18 14 US-10-902-367-137 Sequence 27 29 28.2 18 14 US-10-902-367-137 Sequence 27 29 28.2 18 14 US-10-092-367-137 Sequence 27 29 28.2 18 14 US-10-092-367-137 Sequence 27 29 28.2 18 14 US-10-092-367-137 Sequence 27 29 28.2 18 14 US-10-105-232-118 Sequence 17 US-10-105-232-118 Sequence 18 28 27.2 19 14 US-10-105-232-138 Sequence 18 28 27.2 19 14 US-10-105-232-138 Sequence 35 28 27.2 18 14 US-10-105-232-138 Sequence 35 27.2 18 14 US-10-105-236-155 Sequence 35 27.2 18 14 US-10-105-236-155 Sequence 35 27.2 18 14 US-10-105-236-156 Sequence 35 27.2 18 14 US-10-105-236-166 Sequence 35 27.2 18 14 U	30 29.1 14 14 US-10-033-741-38 Sequence 39 30 29.1 14 14 US-10-033-66-39 Sequence 39 30 29.1 14 14 US-10-285-393 Sequence 39 30 29.1 14 15 US-10-285-393 Sequence 54 30 29.1 18 16 US-10-75-640-4 Sequence 64 30 29.1 18 16 US-10-75-640-4 Sequence 64 30 29.1 18 16 US-10-75-640-4 Sequence 65 30 29.1 18 17 US-10-75-640-4 Sequence 65 30 29.1 20 18 17 US-10-191-732-4 Sequence 65 30 29.1 20 17 US-10-486-924-1 Sequence 22 28.2 17 17 US-10-918-775-5 Sequence 22 28.2 17 17 US-10-918-775-5 Sequence 22 28.2 17 17 US-10-92-367-13 Sequence 18 18 18 US-10-92-367-13 Sequence 18 18 US-10-92-367-15 Sequence 19 28.2 18 14 US-10-92-367-15 Sequence 19 28.2 18 18 US-10-92-367-15 Sequence 19 28.2 18 18 US-10-92-367-15 Sequence 19 28.2 18 14 US-10-092-367-15 Sequence 19 28.2 18 14 US-10-092-367-15 Sequence 19 28.2 18 14 US-10-186-681-3 Sequence 19 28.5 27.7 19 14 US-10-186-681-3 Sequence 19 28.5 27.7 19 14 US-10-189-437-118 Sequence 18 28.5 27.7 19 14 US-10-189-437-118 Sequence 35 Sequence 18 27.2 18 14 US-10-92-367-15 Sequence 19 28.5 27.7 19 14 US-10-189-437-118 Sequence 18 28.5 27.7 19 14 US-10-189-437-118 Sequence 18 28.2 17 19 US-09-966-955A-35 Sequence 18 27.2 18 US-09-966-955A-35 Sequence 18 27	29.1 14 14 US-10-033-741-38 Sequence 39 29.1 14 14 US-10-033-62-39 Sequence 39 29.1 14 15 US-10-285-394-23 Sequence 54 29.1 18 16 US-10-75-440-4 Sequence 47, 29.1 18 16 US-10-75-440-4 Sequence 47, 29.1 18 16 US-10-75-423-4 Sequence 47, 29.1 19 15 US-10-75-640-4 Sequence 47, 29.1 20 17 US-10-76-74-1 Sequence 57, 29.1 20 17 US-10-76-74-1 Sequence 57, 29.1 20 17 US-10-86-924-1 Sequence 57, 29.1 20 17 US-10-86-924-1 Sequence 57, 29.2 10 15 US-10-91-91-72 Sequence 27, 29.3 15 US-10-91-91-91-91-91-91-91-91-91-91-91-91-91-	25. 30 29.1 14 19 10 10 10 10 10 10 10 10 10 10 10 10 10	Sequence 38 Sequence 39 Sequence 4, Sequence 4, Sequence 4, Sequence 65 Sequence 1, Sequence 1, Sequence 22 Sequence 22 Sequence 22 Sequence 22 Sequence 23 Sequence 37 Sequence 13 Sequence 13 Sequence 13 Sequence 13 Sequence 13 Sequence 13
6 30 29.1 14 14 US.10-033-662-39 Sequence 33 Sequence 23 30 29.1 14 15 US-10-288-394-233 Sequence 24 30 29.1 14 15 US-10-928-324-54 Sequence 24 30 29.1 18 16 US-10-75-640-4 Sequence 44 30 29.1 18 16 US-10-775-423-4 Sequence 44 30 29.1 18 16 US-10-775-423-4 Sequence 45 30 29.1 18 15 US-10-262-794A-65 Sequence 65 30 29.1 20 17 US-10-88-924-1 Sequence 65 29 28.2 10 15 US-10-88-924-1 Sequence 65 29 28.2 10 17 US-10-486-924-1 Sequence 67 29 28.2 10 15 US-10-89-924-1 Sequence 67 29 28.2 17 10 US-10-89-924-1 Sequence 67 29 28.2 17 10 US-10-91-89-22 Sequence 22 28.2 17 17 US-10-91-89-23 Sequence 23 28.2 18 14 US-10-92-367-5 Sequence 23 28.2 18 14 US-10-92-367-5 Sequence 15 29 28.2 18 14 US-10-92-367-15 Sequence 15 29 28.2 18 14 US-10-92-367-15 Sequence 15 28 28.2 18 14 US-10-092-367-15 Sequence 15 28 28.2 18 14 US-10-092-367-15 Sequence 17 US-10-82-98 Sequence 17 US-10-92-367-15 Sequence 17 US-10-92-367-15 Sequence 17 US-10-92-367-15 Sequence 17 US-10-10-32-38 Sequence 17 US-10-10-32-31-31 Sequence 17 US-10-32-31-31 Sequence 17 US-10-32-31-31 Sequence 17 US-10-32-31-31 Sequence 17 US-10-32-31-31 Sequence 32 US-10-32-32-31-31 Sequence 32 US-10-32-32-31-31 Sequence 32 US	6 30 29.1 14 14 US-10-033-662-39 Sequence 39 30 29.1 14 15 US-10-288-394-233 Sequence 23 30 29.1 14 15 US-10-928-324-54 Sequence 24 30 29.1 18 16 US-10-75-640-4 Sequence 44 30 29.1 18 16 US-10-775-423-4 Sequence 44 30 29.1 18 16 US-10-775-423-4 Sequence 45 30 29.1 18 16 US-10-186-394-1 Sequence 65 30 29.1 20 17 US-10-262-794A-65 Sequence 65 29.1 20 17 US-10-262-794A-65 Sequence 65 29 28.2 13 20 17 US-10-486-924-1 Sequence 65 29 28.2 13 10 US-10-486-924-1 Sequence 67 29 28.2 13 10 US-10-486-924-2 Sequence 22 28.2 17 17 US-10-91-897-22 Sequence 23 28.2 17 17 US-10-91-897-22 Sequence 23 28.2 18 14 US-10-92-367-5 Sequence 23 28.2 18 14 US-10-92-367-5 Sequence 15 29 28.2 18 14 US-10-92-367-5 Sequence 15 29 28.2 18 14 US-10-92-367-15 Sequence 15 28 28.2 18 14 US-10-92-367-15 Sequence 15 28 28.2 18 14 US-10-092-367-15 Sequence 15 28 28.2 18 14 US-10-186-98 Sequence 17 28.5 27.7 19 14 US-10-186-437-118 Sequence 17 28.5 27.7 19 14 US-10-186-437-118 Sequence 17 28.5 27.7 19 14 US-10-186-437-118 Sequence 18 28 27.2 18 14 US-10-189-437-118 Sequence 18 28 27.2 18 14 US-10-189-437-118 Sequence 18 28 27.2 18 14 US-10-189-437-118 Sequence 18 27.2 18 14 US-10-092-367-165 Sequence 18 28 27.2 18 14 US-10-092-367-165 Sequence 18 27.2 18 14 US-10-092-367-165 Sequence 28 27.2 18 14 US-10-092-367-165 Sequence 28 27.2 18 14 US-10-092-367-165 Sequence 28 27.2 18 14 US-10-092-367-185 Sequence 28 27.2 18 14 US-10-092-367-185 Sequence 28 27.2 18 14 US-10-092-367-185 Sequence 28 27.2 18 US-10-092-367-185 Seq	30 29.1 14 14 US-10-033-662-39 Sequence 23 30 29.1 14 15 US-10-285-394-233 Sequence 23 30 29.1 14 15 US-10-285-394-233 Sequence 24 30 29.1 18 16 US-10-775-600-4 Sequence 4, 30 29.1 18 16 US-10-775-600-4 Sequence 4, 30 29.1 18 16 US-10-775-600-4 Sequence 4, 30 29.1 18 16 US-10-775-600-4 Sequence 6, 30 29.1 20 17 US-10-191-772-4 Sequence 6, 30 29.1 20 17 US-10-486-924-2 Sequence 6, 29 28.2 13 15 US-10-486-924-2 Sequence 2, 29 28.2 13 15 US-10-486-924-2 Sequence 2, 29 28.2 17 10 US-09-812-464-22 Sequence 2, 29 28.2 17 10 US-09-812-464-22 Sequence 2, 29 28.2 18 14 US-10-092-367-5 Sequence 3, 28.2 18 14 US-10-10-23-98 Sequence 3, 28.2 18 14 US-10-10-23-98 Sequence 1, 28.2 18 14 US-10-10-23-98 Sequence 1, 28.2 18 14 US-10-105-232-118 Sequence 1, 28.2 18 14 US-10-105-232-118 Sequence 1, 28.2 17 19 14 US-10-105-232-118 Sequence 1, 28.2 17 19 14 US-10-105-232-118 Sequence 1, 28.2 17 19 US-09-866-955A-3 Sequence 1, 28.2 17 18 US-09-866-955A-3 Sequence 1, 28.2 17 US-09-866-956-958-958-958-958-958-958-958-958-958-9	29.1 14 14 US-10-033-662-39 Sequence 39 29.1 14 15 US-10-285-394-233 Sequence 52 29.1 14 17 US-10-923-324-54 Sequence 54 29.1 18 16 US-10-775-600-4 Sequence 47 29.1 18 16 US-10-775-601-4 Sequence 47 29.1 18 16 US-10-775-613-4 Sequence 47 29.1 18 16 US-10-775-613-4 Sequence 67 29.1 20 17 US-10-191-732-4 Sequence 67 29.1 20 17 US-10-191-732-4 Sequence 67 29.1 20 17 US-10-486-924-2 Sequence 67 29.1 20 17 US-10-486-924-2 Sequence 67 28.2 13 15 US-10-380-147-45 Sequence 67 28.2 13 15 US-10-380-147-45 Sequence 67 28.2 13 15 US-10-380-147-45 Sequence 67 28.2 18 14 US-10-092-367-13 Sequence 13 28.2 18 14 US-10-092-367-13 Sequence 13 28.2 18 14 US-10-186-681-3 Sequence 13 27.7 19 14 US-10-186-681-3 Sequence 13 27.7 19 14 US-10-189-437-118 Sequence 15 27.7 19 14 US-10-189-437-118 Sequence 15 27.7 19 14 US-10-092-367-15 Sequence 16 27.7 19 14 US-10-189-437-118 Sequence 15 27.7 19 14 US-10-189-437-118 Sequence 15 27.7 19 14 US-10-092-367-169 Sequence 16 27.7 19 14 US-10-092-367-169 Sequence 16 27.7 19 14 US-10-092-367-185 Sequence 16 27.7 19 14 US-10-092-367-189 Sequence 18 27.8 14 US-10-092-367-189 Sequence 18 27.9 18 14 US-10-092-367-189 Sequence 18 27.1 18 14 US-10-092-367-189 Sequence 18 27.2 18 14 US-10-092-367-189 Sequence 18 27.7 19 US-09-86-858-35 Sequence 18 27.7 19 US-09-86-858-35 Sequence 18 27.8 18 18 US-09-86-858-35 Sequence 18 27.9 18 US-09-86-858-35 Sequence 18 27.0 18 US-09-86-858-35 Sequence 18 27.1 US-09-86-858-35 Sequence 18 27.1 US-09-86-858-35 Sequence 18 27.2 US-09-86-858-35 Seq	2 29.1 14 175 US 19.0 29.1 15	sequence 33 sequence 23 sequence 24 sequence 44 sequence 45 sequence 65 sequence 65 sequence 65 sequence 22 sequence 22 sequence 22 sequence 23 sequence 38 sequence 38 sequence 13 sequence 35 sequence 13 sequence 35 sequen
7 30 29.1 14 15 US-10-285-394-233 Sequence 5.4 8 30 29.1 18 16 US-10-775-454-4 Sequence 5.4 9 29.1 18 16 US-10-775-423-4 Sequence 4. 1 30 29.1 18 16 US-10-775-423-4 Sequence 4. 3 29.1 19 US-10-76-013-65 Sequence 4. Sequence 65 3 29.1 20 17 US-10-76-013-65 Sequence 65 Sequence 65 4 30 29.1 20 17 US-10-486-294-1 Sequence 65 Sequence 65 5 29 28.2 10 US-10-486-294-2 Sequence 22 Sequence 22 Sequence 22 Sequence 22 Sequence 22 Sequence 23 Sequence 23 <td>29.1 14 15 US-10-285-394-233 Sequence 23 29.1 18 16 US-10-293-324-54 Sequence 54 30 29.1 18 16 US-10-775-640-4 Sequence 54 30 29.1 18 16 US-10-775-640-4 Sequence 64 30 29.1 18 17 US-10-191-732-4 Sequence 65 30 29.1 19 17 US-10-191-732-4 Sequence 65 30 29.1 20 17 US-10-76-013-65 Sequence 65 29 28.2 10 15 US-10-76-013-65 Sequence 1, 29 28.2 10 15 US-10-486-924-1 Sequence 2, 29 28.2 17 US-10-486-924-2 Sequence 2, 29 28.2 17 US-10-486-924-2 Sequence 2, 29 28.2 17 US-10-901-897-22 Sequence 2, 29 28.2 17 US-10-901-897-22 Sequence 1, 29 28.2 18 14 US-10-902-367-5 Sequence 1, 29 28.2 18 14 US-10-902-367-5 Sequence 1, 29 28.2 18 14 US-10-902-367-15 Sequence 1, 29 28.2 18 14 US-10-10-21-98 Sequence 1, 29 28.2 18 14 US-10-10-21-98 Sequence 1, 28 27.7 19 14 US-10-10-232-113 Sequence 1, 28 27.2 19 14 US-10-108-437-116 Sequence 1, 28 27.2 19 14 US-10-108-3437-116 Sequence 1, 28 27.2 18 14 US-10-108-3477-116 Sequence 1, 28 27.2 18 14 US-10-09-367-36 -36 S</td> <td>30 29.1 14 15 US-10-285-344-233 Sequence 23 30 29.1 14 17 US-10-285-334-234 Sequence 54 30 29.1 18 16 US-10-775-40.4 Sequence 54 30 29.1 18 16 US-10-775-43.4 Sequence 44 30 29.1 18 17 US-10-191-772-4 Sequence 47 30 29.1 19 15 US-10-191-772-4 Sequence 67 Sequence 17 US-10-191-772-4 Sequence 67 Sequence 17 US-10-191-772-4 Sequence 17 US-10-191-772-5 Sequence 17 US-10-191-772-5 Sequence 22 28.2 17 17 US-10-91-87-2 Sequence 23 28.2 17 17 US-10-91-87-2 Sequence 17 US-10-191-91-91 Sequence 18 US-10-191-91-91 Sequence 19 US-10-91-91-91 91 Sequence 19 US-10-91-91-91 Sequence 19 US-10-91-91-91-91 Sequence 19 US-10-91-91-91-91 Sequence 19 US-10-91-91-91-91 Sequence 19 US-10-91-91-91-91 Sequence 19 US-10-91-91-91-91-91 Sequence 19 US-10-91-91-91-91 Sequence 19 US-10-91-91-91-91 Sequence 19 US-10-91-91-91-91-91 Sequence 19 US-10-91-91-91-91-91-91-91-91-91-91-91-91-91-</td> <td>29.1 14 15 US-10-285-384-233 Sequence 52 29.1 18 16 US-10-775-40-4 Sequence 54 29.1 18 16 US-10-775-403-4 Sequence 64 29.1 18 16 US-10-775-432-4 Sequence 67 29.1 18 17 US-10-191-732-4 Sequence 65 29.1 19 15 US-10-191-732-4 Sequence 65 29.1 20 17 US-10-86-924-1 Sequence 65 29.1 20 17 US-10-86-924-1 Sequence 65 29.2 10 15 US-10-380-147-45 Sequence 65 29.3 10 15 US-10-380-147-45 Sequence 65 29.4 10 15 US-10-380-147-45 Sequence 67 29.5 17 US-10-910-897-22 Sequence 22 28.2 17 10 US-10-910-897-22 Sequence 23 28.2 18 14 US-10-902-367-13 Sequence 98 28.2 18 14 US-10-92-367-13 Sequence 13 28.2 18 14 US-10-02-367-13 Sequence 13 28.2 18 14 US-10-105-232-118 Sequence 13 27.7 19 14 US-10-105-232-118 Sequence 13 27.7 19 14 US-10-105-232-13 Sequence 13 27.7 19 14 US-10-105-232-13 Sequence 13 27.7 19 14 US-10-105-337-159 Sequence 13 27.7 19 14 US-10-105-337-169 Sequence 15 27.7 19 14 US-10-092-367-169 Sequence 15 27.7 19 14 US-10-092-367-169 Sequence 15 27.7 19 14 US-10-092-367-169 Sequence 16 27.7 18 14 US-10-092-367-169 Sequence 16 27.7 18 14 US-10-092-367-169 Sequence 16 27.7 18 14 US-10-092-367-169 Sequence 16 27.8 18 14 US-10-092-367-169 Sequence 16 27.9 18 14 US-10-092-367-169 Sequence 16 27.9 18 14 US-10-092-367-169 Sequence 16 27.0 18 14 US-10-092-367-169 Sequence 16 27.1 18 US-09-86-878-878-878-878-888-888-888-888-888-</td> <td>29. 1 14 15 US 30 29.1 14 15 US 30 29.1 18 16 US 30 29.1 18 16 US 30 29.1 18 16 US 30 29.1 18 10 US 30 29.1 18 10 US 30 29.1 18 10 US 30 29.1 19 17 US 30 29.1 19 17 US 30 29.1 19 17 US 30 29.1 20 17 US 30 29.1 20 17 US 30 29.2 13 15 US 30 29.2 13 15 US 30 28.2 17 10 US 30 28.2 17 10 US 31 28.2 27.7 19 14 US 32 28.5 27.7 19 14 US 33 28.5 27.7 19 14 US 34 28.5 27.7 19 14 US 35 28.5 27.7 19 US 36 27.2 18 US 37.2 18 US 38 27.2 18 US 38 27.2 18 US 38 27.2 19 US 39 US 30 US 30 US 31 US 32 US 33 US 34 US 36 US 36 US 37 US 38 US 38 US 38 US 38 US 38 US 38 US 39 US 30 US 30 US 30 US 30 US 30 US 31 US 31 US 32 US 33 US 34 US 35 US 36 US 37 US 38 US 38 US 38 US 39 US 30 US 30 US 30 US 31 US 31 US 32 US 33 US 34 US 35 US 36 US 37 US 38 US 3</td> <td>Sequence 23 Sequence 44 Sequence 45 Sequence 65 Sequence 12 Sequence 12 Sequence 22 Sequence 23 Sequence 23 Sequence 23 Sequence 13 Sequence 13 Sequence 13 Sequence 18 Sequence 18 Sequence 18 Sequence 18 Sequence 18 Sequence 11 Sequence 11 Sequence 13 Sequence 13 Sequence 13 Sequence 13 Sequence 13</td>	29.1 14 15 US-10-285-394-233 Sequence 23 29.1 18 16 US-10-293-324-54 Sequence 54 30 29.1 18 16 US-10-775-640-4 Sequence 54 30 29.1 18 16 US-10-775-640-4 Sequence 64 30 29.1 18 17 US-10-191-732-4 Sequence 65 30 29.1 19 17 US-10-191-732-4 Sequence 65 30 29.1 20 17 US-10-76-013-65 Sequence 65 29 28.2 10 15 US-10-76-013-65 Sequence 1, 29 28.2 10 15 US-10-486-924-1 Sequence 2, 29 28.2 17 US-10-486-924-2 Sequence 2, 29 28.2 17 US-10-486-924-2 Sequence 2, 29 28.2 17 US-10-901-897-22 Sequence 2, 29 28.2 17 US-10-901-897-22 Sequence 1, 29 28.2 18 14 US-10-902-367-5 Sequence 1, 29 28.2 18 14 US-10-902-367-5 Sequence 1, 29 28.2 18 14 US-10-902-367-15 Sequence 1, 29 28.2 18 14 US-10-10-21-98 Sequence 1, 29 28.2 18 14 US-10-10-21-98 Sequence 1, 28 27.7 19 14 US-10-10-232-113 Sequence 1, 28 27.2 19 14 US-10-108-437-116 Sequence 1, 28 27.2 19 14 US-10-108-3437-116 Sequence 1, 28 27.2 18 14 US-10-108-3477-116 Sequence 1, 28 27.2 18 14 US-10-09-367-36 -36 S	30 29.1 14 15 US-10-285-344-233 Sequence 23 30 29.1 14 17 US-10-285-334-234 Sequence 54 30 29.1 18 16 US-10-775-40.4 Sequence 54 30 29.1 18 16 US-10-775-43.4 Sequence 44 30 29.1 18 17 US-10-191-772-4 Sequence 47 30 29.1 19 15 US-10-191-772-4 Sequence 67 Sequence 17 US-10-191-772-4 Sequence 67 Sequence 17 US-10-191-772-4 Sequence 17 US-10-191-772-5 Sequence 17 US-10-191-772-5 Sequence 22 28.2 17 17 US-10-91-87-2 Sequence 23 28.2 17 17 US-10-91-87-2 Sequence 17 US-10-191-91-91 Sequence 18 US-10-191-91-91 Sequence 19 US-10-91-91-91 91 Sequence 19 US-10-91-91-91 Sequence 19 US-10-91-91-91-91 Sequence 19 US-10-91-91-91-91 Sequence 19 US-10-91-91-91-91 Sequence 19 US-10-91-91-91-91 Sequence 19 US-10-91-91-91-91-91 Sequence 19 US-10-91-91-91-91 Sequence 19 US-10-91-91-91-91 Sequence 19 US-10-91-91-91-91-91 Sequence 19 US-10-91-91-91-91-91-91-91-91-91-91-91-91-91-	29.1 14 15 US-10-285-384-233 Sequence 52 29.1 18 16 US-10-775-40-4 Sequence 54 29.1 18 16 US-10-775-403-4 Sequence 64 29.1 18 16 US-10-775-432-4 Sequence 67 29.1 18 17 US-10-191-732-4 Sequence 65 29.1 19 15 US-10-191-732-4 Sequence 65 29.1 20 17 US-10-86-924-1 Sequence 65 29.1 20 17 US-10-86-924-1 Sequence 65 29.2 10 15 US-10-380-147-45 Sequence 65 29.3 10 15 US-10-380-147-45 Sequence 65 29.4 10 15 US-10-380-147-45 Sequence 67 29.5 17 US-10-910-897-22 Sequence 22 28.2 17 10 US-10-910-897-22 Sequence 23 28.2 18 14 US-10-902-367-13 Sequence 98 28.2 18 14 US-10-92-367-13 Sequence 13 28.2 18 14 US-10-02-367-13 Sequence 13 28.2 18 14 US-10-105-232-118 Sequence 13 27.7 19 14 US-10-105-232-118 Sequence 13 27.7 19 14 US-10-105-232-13 Sequence 13 27.7 19 14 US-10-105-232-13 Sequence 13 27.7 19 14 US-10-105-337-159 Sequence 13 27.7 19 14 US-10-105-337-169 Sequence 15 27.7 19 14 US-10-092-367-169 Sequence 15 27.7 19 14 US-10-092-367-169 Sequence 15 27.7 19 14 US-10-092-367-169 Sequence 16 27.7 18 14 US-10-092-367-169 Sequence 16 27.7 18 14 US-10-092-367-169 Sequence 16 27.7 18 14 US-10-092-367-169 Sequence 16 27.8 18 14 US-10-092-367-169 Sequence 16 27.9 18 14 US-10-092-367-169 Sequence 16 27.9 18 14 US-10-092-367-169 Sequence 16 27.0 18 14 US-10-092-367-169 Sequence 16 27.1 18 US-09-86-878-878-878-878-888-888-888-888-888-	29. 1 14 15 US 30 29.1 14 15 US 30 29.1 18 16 US 30 29.1 18 16 US 30 29.1 18 16 US 30 29.1 18 10 US 30 29.1 18 10 US 30 29.1 18 10 US 30 29.1 19 17 US 30 29.1 19 17 US 30 29.1 19 17 US 30 29.1 20 17 US 30 29.1 20 17 US 30 29.2 13 15 US 30 29.2 13 15 US 30 28.2 17 10 US 30 28.2 17 10 US 31 28.2 27.7 19 14 US 32 28.5 27.7 19 14 US 33 28.5 27.7 19 14 US 34 28.5 27.7 19 14 US 35 28.5 27.7 19 US 36 27.2 18 US 37.2 18 US 38 27.2 18 US 38 27.2 18 US 38 27.2 19 US 39 US 30 US 30 US 31 US 32 US 33 US 34 US 36 US 36 US 37 US 38 US 38 US 38 US 38 US 38 US 38 US 39 US 30 US 30 US 30 US 30 US 30 US 31 US 31 US 32 US 33 US 34 US 35 US 36 US 37 US 38 US 38 US 38 US 39 US 30 US 30 US 30 US 31 US 31 US 32 US 33 US 34 US 35 US 36 US 37 US 38 US 3	Sequence 23 Sequence 44 Sequence 45 Sequence 65 Sequence 12 Sequence 12 Sequence 22 Sequence 23 Sequence 23 Sequence 23 Sequence 13 Sequence 13 Sequence 13 Sequence 18 Sequence 18 Sequence 18 Sequence 18 Sequence 18 Sequence 11 Sequence 11 Sequence 13 Sequence 13 Sequence 13 Sequence 13 Sequence 13
30 29.1 14 17 US-10-923-324-54 Sequence 54 9 30 29.1 18 16 US-10-775-460-4 Sequence 4, 1 30 29.1 18 16 US-10-775-43-4 Sequence 4, 2 30 29.1 19 15 US-10-19-73-4 Sequence 4, 3 29.1 19 15 US-10-76-79-46-5 Sequence 65 4 29.1 20 17 US-10-76-713-42 Sequence 65 5 29.1 20 17 US-10-486-924-1 Sequence 65 5 29.1 20 17 US-10-486-924-2 Sequence 67 6 29 28.2 10 US-10-436-145-5 Sequence 67 9 29.2 28.2 17 US-10-436-145-5 Sequence 67 9 29.2 28.2 18 14 US-10-436-122 Sequence 67 9 28.2 18 14 US-10-93-84-22 Sequence 67 <t< td=""><td>30 29.1 14 17 US-10-923-324-54 Sequence 54 30 29.1 18 16 US-10-775-640-4 Sequence 64 30 29.1 18 16 US-10-775-640-4 Sequence 64 30 29.1 18 16 US-10-19-732-4 Sequence 65 30 29.1 18 17 US-10-19-732-4 Sequence 65 30 29.1 20 15 US-10-19-776-54-55 Sequence 65 29 29.1 20 15 US-10-486-924-1 Sequence 65 29 28.2 10 17 US-10-486-924-2 Sequence 17 29 28.2 10 15 US-10-486-924-2 Sequence 27 29 28.2 17 10 US-09-9132-442-2 Sequence 27 29 28.2 17 10 US-09-9132-442-2 Sequence 27 29 28.2 17 10 US-09-913-444-22 Sequence 27 29 28.2 18 14 US-10-901-897-2 Sequence 27 29 28.2 18 14 US-10-902-367-15 Sequence 17 29 28.2 18 14 US-10-092-367-15 Sequence 17 29 28.2 18 14 US-10-092-367-15 Sequence 17 29 28.2 18 14 US-10-10-23-98 Sequence 17 US-10-10-23-21 Sequence 18 28.5 27.7 19 14 US-10-105-232-118 Sequence 17 28 27.2 19 14 US-10-105-232-118 Sequence 18 28.5 27.7 19 14 US-10-105-232-118 Sequence 18 28.5 27.7 19 14 US-10-105-232-118 Sequence 18 28 27.2 18 14 US-10-105-33-38 Sequence 38 27.2 18 14 US-10-105-33-38 Sequence 35 28 27.2 18 14 US-10-105-33-36 Sequence 35 28 27.2 18 14 US-10-105-33-18 Sequence 35 28 27.2 18 14 US-10-105-336-169 Sequence 35 27.2 18 14 US-10-105-336-169 Sequence 35 28 27.2 18 US-10-105-336-169 Sequence 35 28 27.2 18 US-10-105-336-169 Sequence 35 27.2 18</td><td>30 29.1 14 17 US-10-923-344-54 Sequence 54 30 29.1 18 16 US-10-775-640-4 Sequence 4, 30 29.1 18 16 US-10-775-642-4 Sequence 4, 30 29.1 18 17 US-10-775-423-4 Sequence 4, 30 29.1 18 17 US-10-181-722-4 Sequence 65 30 29.1 20 16 US-10-76-761-55 Sequence 65 30 29.1 20 17 US-10-486-924-1 Sequence 1, 20 17 US-10-486-924-2 Sequence 1, 20 17 US-10-486-924-2 Sequence 2, 29 28.2 10 15 US-10-486-924-2 Sequence 2, 29 28.2 11 10 US-09-812-464-22 Sequence 2, 29 28.2 17 10 US-09-812-464-22 Sequence 2, 29 28.2 17 10 US-09-966-955A-23 Sequence 2, 29 28.2 18 14 US-10-092-367-15 Sequence 1, 28 2 27.7 19 14 US-10-186-681-3 Sequence 1, 28 2 27.7 19 14 US-10-189-437-118 Sequence 1, 28 2 27.7 19 14 US-10-189-437-118 Sequence 1, 28 27.2 14 US-10-092-367-15 Sequence 1, 28 27.2 14 US-10-092-367-15 Sequence 1, 28 27.2 14 US-10-189-437-118 Sequence 1, 28 27.2 14 US-10-092-367-15 Sequence 1, 28 27.2 14 US-10-092-367-16 Sequence 1, 28</td><td>29.1 14 17 US-10-923-34-54 Sequence 54 29.1 18 16 US-10-775-440-4 Sequence 4, 29.1 18 16 US-10-775-4423-4 Sequence 4, 29.1 18 16 US-10-775-423-4 Sequence 4, 29.1 18 17 US-10-191-72-4 Sequence 65 29.1 20 16 US-10-76-792-2 Sequence 65 29.1 20 17 US-10-86-924-1 Sequence 1, 29.1 20 17 US-10-86-924-2 Sequence 2, 29.2 10 15 US-10-380-147-45 Sequence 2, 28.2 10 15 US-10-380-147-45 Sequence 2, 28.2 17 10 US-9813-464-22 Sequence 2, 28.2 17 10 US-9813-464-22 Sequence 2, 28.2 17 10 US-99-86-955A-23 Sequence 2, 28.2 17 10 US-09-966-955A-23 Sequence 2, 28.2 18 14 US-10-901-897-22 Sequence 2, 28.2 18 14 US-10-901-897-23 Sequence 1, 28.2 18 14 US-10-105-237-13 Sequence 1, 27.7 19 14 US-10-186-461-3 Sequence 1, 27.7 19 14 US-10-186-461-3 Sequence 1, 27.7 19 14 US-10-189-437-118 Sequence 1, 27.7 19 14 US-10-189-437-118 Sequence 1, 27.2 14 US-10-92-367-15 Sequence 2, 27.2 14 US-10-92-367-15 Sequence 2, 27.2 14 US-10-189-437-118 Sequence 3, 27.2 14 US-10-92-367-16 Sequence 3, 27.2 14 US-10-92-367-16 Sequence 1, 27.2 18 14 US-10-92-367-16 Sequence 1, 27.2 18 14 US-10-092-367-16 Sequence 1, 27.2 18 14 US-10-092-367-18 Sequence 1, 27.2 18 14 US-10-092-367-18 Sequence 1, 27.2 18 US-09-966-955A-35 Sequence 1, 27.2 US-09-966-955A-35 Sequ</td><td>8 30 29.1 14 17 05 29.1 130 29.1 14 17 05 29.1 18 16 06 06 05 29.1 18 16 06 06 05 29.1 18 15 05 29.1 18 15 05 29.1 18 15 05 29 28.2 11 10 05 29 29 29 29 20 11 10 05 29 29 29 20 11 10 05 29 29 29 20 11 10 05 29 29 29 20 11 10 05 29 29 29 20 11 10 05 29 29 29 20 11 10 05 29 29 29 20 11 10 05 29 29 29 20 20 11 10 05 20 20 20 20 20 20 20 20 20 20 20 20 20</td><td>sequence 54 sequence 4, sequence 4, sequence 65 sequence 16, sequence 22, sequence 22, sequence 23, sequence 23, sequence 13, sequence 13, sequence 13, sequence 34, sequence 34, sequence 34, sequence 36, sequence 37, sequence 37, sequence 13, /td></t<>	30 29.1 14 17 US-10-923-324-54 Sequence 54 30 29.1 18 16 US-10-775-640-4 Sequence 64 30 29.1 18 16 US-10-775-640-4 Sequence 64 30 29.1 18 16 US-10-19-732-4 Sequence 65 30 29.1 18 17 US-10-19-732-4 Sequence 65 30 29.1 20 15 US-10-19-776-54-55 Sequence 65 29 29.1 20 15 US-10-486-924-1 Sequence 65 29 28.2 10 17 US-10-486-924-2 Sequence 17 29 28.2 10 15 US-10-486-924-2 Sequence 27 29 28.2 17 10 US-09-9132-442-2 Sequence 27 29 28.2 17 10 US-09-9132-442-2 Sequence 27 29 28.2 17 10 US-09-913-444-22 Sequence 27 29 28.2 18 14 US-10-901-897-2 Sequence 27 29 28.2 18 14 US-10-902-367-15 Sequence 17 29 28.2 18 14 US-10-092-367-15 Sequence 17 29 28.2 18 14 US-10-092-367-15 Sequence 17 29 28.2 18 14 US-10-10-23-98 Sequence 17 US-10-10-23-21 Sequence 18 28.5 27.7 19 14 US-10-105-232-118 Sequence 17 28 27.2 19 14 US-10-105-232-118 Sequence 18 28.5 27.7 19 14 US-10-105-232-118 Sequence 18 28.5 27.7 19 14 US-10-105-232-118 Sequence 18 28 27.2 18 14 US-10-105-33-38 Sequence 38 27.2 18 14 US-10-105-33-38 Sequence 35 28 27.2 18 14 US-10-105-33-36 Sequence 35 28 27.2 18 14 US-10-105-33-18 Sequence 35 28 27.2 18 14 US-10-105-336-169 Sequence 35 27.2 18 14 US-10-105-336-169 Sequence 35 28 27.2 18 US-10-105-336-169 Sequence 35 28 27.2 18 US-10-105-336-169 Sequence 35 27.2 18	30 29.1 14 17 US-10-923-344-54 Sequence 54 30 29.1 18 16 US-10-775-640-4 Sequence 4, 30 29.1 18 16 US-10-775-642-4 Sequence 4, 30 29.1 18 17 US-10-775-423-4 Sequence 4, 30 29.1 18 17 US-10-181-722-4 Sequence 65 30 29.1 20 16 US-10-76-761-55 Sequence 65 30 29.1 20 17 US-10-486-924-1 Sequence 1, 20 17 US-10-486-924-2 Sequence 1, 20 17 US-10-486-924-2 Sequence 2, 29 28.2 10 15 US-10-486-924-2 Sequence 2, 29 28.2 11 10 US-09-812-464-22 Sequence 2, 29 28.2 17 10 US-09-812-464-22 Sequence 2, 29 28.2 17 10 US-09-966-955A-23 Sequence 2, 29 28.2 18 14 US-10-092-367-15 Sequence 1, 28 2 27.7 19 14 US-10-186-681-3 Sequence 1, 28 2 27.7 19 14 US-10-189-437-118 Sequence 1, 28 2 27.7 19 14 US-10-189-437-118 Sequence 1, 28 27.2 14 US-10-092-367-15 Sequence 1, 28 27.2 14 US-10-092-367-15 Sequence 1, 28 27.2 14 US-10-189-437-118 Sequence 1, 28 27.2 14 US-10-092-367-15 Sequence 1, 28 27.2 14 US-10-092-367-16 Sequence 1, 28	29.1 14 17 US-10-923-34-54 Sequence 54 29.1 18 16 US-10-775-440-4 Sequence 4, 29.1 18 16 US-10-775-4423-4 Sequence 4, 29.1 18 16 US-10-775-423-4 Sequence 4, 29.1 18 17 US-10-191-72-4 Sequence 65 29.1 20 16 US-10-76-792-2 Sequence 65 29.1 20 17 US-10-86-924-1 Sequence 1, 29.1 20 17 US-10-86-924-2 Sequence 2, 29.2 10 15 US-10-380-147-45 Sequence 2, 28.2 10 15 US-10-380-147-45 Sequence 2, 28.2 17 10 US-9813-464-22 Sequence 2, 28.2 17 10 US-9813-464-22 Sequence 2, 28.2 17 10 US-99-86-955A-23 Sequence 2, 28.2 17 10 US-09-966-955A-23 Sequence 2, 28.2 18 14 US-10-901-897-22 Sequence 2, 28.2 18 14 US-10-901-897-23 Sequence 1, 28.2 18 14 US-10-105-237-13 Sequence 1, 27.7 19 14 US-10-186-461-3 Sequence 1, 27.7 19 14 US-10-186-461-3 Sequence 1, 27.7 19 14 US-10-189-437-118 Sequence 1, 27.7 19 14 US-10-189-437-118 Sequence 1, 27.2 14 US-10-92-367-15 Sequence 2, 27.2 14 US-10-92-367-15 Sequence 2, 27.2 14 US-10-189-437-118 Sequence 3, 27.2 14 US-10-92-367-16 Sequence 3, 27.2 14 US-10-92-367-16 Sequence 1, 27.2 18 14 US-10-92-367-16 Sequence 1, 27.2 18 14 US-10-092-367-16 Sequence 1, 27.2 18 14 US-10-092-367-18 Sequence 1, 27.2 18 14 US-10-092-367-18 Sequence 1, 27.2 18 US-09-966-955A-35 Sequence 1, 27.2 US-09-966-955A-35 Sequ	8 30 29.1 14 17 05 29.1 130 29.1 14 17 05 29.1 18 16 06 06 05 29.1 18 16 06 06 05 29.1 18 15 05 29.1 18 15 05 29.1 18 15 05 29 28.2 11 10 05 29 29 29 29 20 11 10 05 29 29 29 20 11 10 05 29 29 29 20 11 10 05 29 29 29 20 11 10 05 29 29 29 20 11 10 05 29 29 29 20 11 10 05 29 29 29 20 11 10 05 29 29 29 20 20 11 10 05 20 20 20 20 20 20 20 20 20 20 20 20 20	sequence 54 sequence 4, sequence 4, sequence 65 sequence 16, sequence 22, sequence 22, sequence 23, sequence 23, sequence 13, sequence 13, sequence 13, sequence 34, sequence 34, sequence 34, sequence 36, sequence 37, sequence 37, sequence 13,
9 30 29.1 18 16 US-10-775-423-4 Sequence 4, 30 1 30 29.1 18 16 US-10-75-423-4 Sequence 4, 30 2 30 29.1 18 16 US-10-75-42-4 Sequence 6, 30 3 29.1 19 15 US-10-262-794A-65 Sequence 6, 50 3 29.1 20 17 US-10-486-924-1 Sequence 6, 50 4 30 29.1 20 17 US-10-486-924-2 Sequence 6, 20 2 29 28.2 10 15 US-10-486-924-2 Sequence 6, 20 2 29 28.2 17 10 US-09-86-936-1 Sequence 2, 20 2 29 28.2 17 10 US-09-86-936-23 Sequence 2, 20 2 29 28.2 18 14 US-10-901-897-22 Sequence 2, 30 2 29 28.2 18 14 US-10-902-367-13 Sequence 2, 30 2 29	30 29.1 18 16 US-10-775-424 Sequence 4, 30 29.1 18 16 US-10-75-424 Sequence 4, 30 29.1 18 17 US-10-19-132-4 Sequence 4, 2 30 29.1 18 16 US-10-19-132-4 Sequence 65 30 29.1 20 17 US-10-19-15-57 Sequence 65 29.1 20 17 US-10-486-924-1 Sequence 65 29 28.2 13 15 US-10-486-924-2 Sequence 2, 29 28.2 13 15 US-10-486-924-2 Sequence 2, 29 28.2 13 15 US-10-486-924-2 Sequence 22, 29 28.2 17 10 US-10-486-924-2 Sequence 22, 29 28.2 17 17 US-10-90-832-464-2 Sequence 23, 29 28.2 18 14 US-10-90-832-464-2 Sequence 23, 29 28.2 18 14 US-10-90-832-13 Sequence 23, 29 28.2 18 14 US-10-92-367-137 Sequence 13 29 28.2 18 14 US-10-092-367-137 Sequence 13 29 28.2 18 14 US-10-105-23-18 Sequence 14 US-10-10-31-34-34 Sequence 15 US-10-31-34-34 Sequence 15 US-10-31-34-34 Sequence 17 US-10-10-31-33-38 Sequence 17 US-10-10-31-33-38 Sequence 17 US-10-10-31-33-38 Sequence 17 US-10-10-31-31-31 Sequence 18 US-10-10-31-31-31 Sequence 18 US-10-10-31-31-31 Sequence 35, 28 27.2 14 US-10-09-36-437-116 Sequence 36, 28 27.2 14 US-10-09-36-37-16 Sequence 36, 28 27.2 14 US-10-09-36-37-16 Sequence 36, 28 27.2 14 US-10-09-36-37-16 Sequence 36, 28 27.2 14 US-10-09-36-357-16 Sequence 36, 28 27.2 14 US-10-09-36-357-16 Sequence 36, 28 27.2 14 US-10-09-36-357-16 Sequence 36, 27.2 18 US-10-09-36-357-16 Sequ	30 29.1 18 16 US-10-775-640-4 Sequence 4, 30 29.1 18 16 US-10-775-423-4 Sequence 4, 30 29.1 18 16 US-10-191-732-4 Sequence 4, 30 29.1 18 16 US-10-191-732-4 Sequence 6, 30 29.1 20 17 US-10-486-924-1 Sequence 6, 30 29.1 20 17 US-10-486-924-2 Sequence 6, 30 29.1 20 17 US-10-486-924-2 Sequence 6, 30 29.1 20 17 US-10-486-924-2 Sequence 6, 30 29.2 13 15 US-10-380-144-45 Sequence 4, 30 29.2 13 15 US-10-380-144-45 Sequence 2, 30 28.2 17 10 US-09-966-955A-2 Sequence 2, 30 28.2 18 14 US-10-092-367-5 Sequence 1, 30 29.2 18 14 US-10-092-367-5 Sequence 1, 30 29.2 18 14 US-10-092-367-5 Sequence 1, 30 29.2 18 14 US-10-092-367-5 Sequence 1, 30 28.2 18 14 US-10-092-367-5 Sequence 1, 30 28.2 18 14 US-10-10-23-9 Sequence 1, 30 28.2 18 14 US-10-10-23-9 Sequence 1, 30 29.2 18 14 US-10-10-23-118 Sequence 1, 30 29.2 18 14 US-10-10-23-118 Sequence 1, 30 29.2 18 14 US-10-189-437-118 Sequence 1, 30 27.2 14 US-10-189-437-118 Sequence 1, 30 27.2 18 14 US-10-092-367-169 Sequence 1, 30 27.2 18 US-09-966-9528-19 Sequence 1, 30 27.2 18 US-09-966-9528-19 Sequence 1, 30 2	29.1 18 16 US-10-775-640-4 Sequence 4, 29.1 18 16 US-10-775-423-4 Sequence 4, 29.1 18 16 US-10-775-423-4 Sequence 4, 29.1 18 16 US-10-191-732-4 Sequence 6, 29.1 18 17 US-10-191-732-4 Sequence 6, 29.1 20 17 US-10-486-924-1 Sequence 6, 29.1 20 17 US-10-486-924-1 Sequence 6, 29.1 20 17 US-10-486-924-2 Sequence 6, 29.2 13 15 US-10-380-141-45 Sequence 4, 29.2 13 15 US-10-380-141-45 Sequence 4, 29.2 13 15 US-10-380-141-45 Sequence 2, 28.2 13 10 US-09-966-955A-2 Sequence 2, 28.2 18 14 US-10-091-891-22 Sequence 1, 28.2 18 14 US-10-092-367-15 Sequence 1, 28.2 18 14 US-10-092-367-15 Sequence 1, 28.2 18 14 US-10-186-681-3 Sequence 1, 29.2 18 14 US-10-186-681-3 Sequence 1, 27.7 19 14 US-10-189-437-118 Sequence 1, 27.7 19 14 US-10-092-367-169 Sequence 1, 27.7 19 US-09-966-958A-35 Sequence 1	30 29.1 18 16 UG 30 29.1 18 16 UG 30 29.1 18 116 UG 30 29.1 18 116 UG 30 29.1 18 117 UG 30 29.1 20 117 UG 52 28.2 11 15 UG 52 28.2 11 15 UG 52 28.2 11 15 UG 53 28.2 11 16 UG 54 29 28.2 11 15 UG 55 28.2 11 16 UG 56 29 28.2 11 16 UG 57 28.2 17 10 UG 58 25 27.7 11 19 UG 58 27.7 11 10 UG 58 27.7 11 10 UG 58 27.7 11 11 UG 58 27.7 11 UG 58 27	sequence 4, sequence 4, sequence 4, sequence 6, sequence 1, sequence 2, sequence 22 sequence 23, sequence 13 sequence 25 sequence 13 sequence 13 sequence 13 sequence 25 seque
10 29.1 18 16 US-10-775-423-4 Sequence 4, 20 29.1 18 17 US-10-191-713-4 Sequence 4, 20 29.1 19 15 US-10-262-794A-65 Sequence 65 3 29.1 20 16 US-10-76-013-657 Sequence 65 29.1 20 17 US-10-76-013-657 Sequence 1, 20 29.2 20.1 20 17 US-10-486-924-1 Sequence 2, 29 28.2 17 US-10-486-924-2 Sequence 1, 29 28.2 17 US-10-486-924-2 Sequence 2, 29 28.2 17 US-10-90-96-924-3 Sequence 2, 29 28.2 17 US-10-90-96-924-3 Sequence 2, 29 28.2 18 14 US-10-90-96-95-23-3 Sequence 2, 29 28.2 18 14 US-10-90-96-95-23-3 Sequence 1, 29 28.2 18 14 US-10-92-367-15 Sequence 1, 29 28.2 18 14 US-10-92-367-15 Sequence 1, 29 28.2 18 14 US-10-92-367-98 Sequence 1, 29 28.2 18 14 US-10-92-367-15 Sequence 1, 29 28.2 18 14 US-10-210-98 Sequence 1, 28 27.7 19 14 US-10-106-232-118 Sequence 1, 28 27.7 19 14 US-10-106-232-118 Sequence 1, 28 27.7 19 14 US-10-108-437-118 Sequence 1, 28 27.2 1	10 29.1 18 16 US-10-775-423-4 Sequence 4, 20 29.1 18 15 US-10-262-794A-65 Sequence 4, 30 29.1 19 15 US-10-262-794A-65 Sequence 65 29.1 20 16 US-10-76-013-657 Sequence 1, 20 29.1 20 17 US-10-76-013-657 Sequence 1, 20 29.2 20 21 20 17 US-10-486-924-1 Sequence 2, 29 28.2 17 US-10-486-924-2 Sequence 4, 29 28.2 17 US-10-486-924-2 Sequence 4, 29 28.2 17 US-10-901-897-22 Sequence 2, 29 28.2 17 US-10-901-897-22 Sequence 2, 29 28.2 18 14 US-10-901-897-22 Sequence 1, 29 28.2 18 14 US-10-902-367-5 Sequence 1, 29 28.2 18 14 US-10-902-367-15 Sequence 1, 29 28.2 18 14 US-10-902-367-15 Sequence 1, 29 28.2 18 14 US-10-210-023-89 Sequence 1, 29 28.2 18 14 US-10-210-23-218 Sequence 1, 28 28.5 27.7 19 14 US-10-105-232-118 Sequence 1, 28 27.2 19 14 US-10-108-437-116 Sequence 1, 28 27.2 19 14 US-10-189-437-116 Sequence 1, 28 27.2 11 US-09-96-955A-35 Sequence 1, 28 27.2 18 14 US-10-189-437-116 Sequence 1, 28 27.2 18 14 US-10-189-437-116 Sequence 1, 28 27.2 18 14 US-10-189-437-116 Sequence 1, 28 27.2 18 14 US-10-092-367-169 Sequence 1, 28 27.2 18 14 US-10-092-367-189 Sequence 1, 28 27.2 18 14 US-	30 29.1 18 16 US-10-775-433-4 Sequence 4, 30 29.1 18 17 US-10-191-732-4 Sequence 6, 30 29.1 19 15 US-10-191-732-4 Sequence 6, 30 29.1 19 15 US-10-262-7944-5 Sequence 6, 30 29.1 20 17 US-10-486-924-1 Sequence 1, 30 29.1 20 17 US-10-486-924-1 Sequence 2, 29 28.2 10 15 US-10-380-147-45 Sequence 2, 29 28.2 17 10 US-10-380-147-45 Sequence 2, 29 28.2 17 10 US-10-380-147-42 Sequence 2, 29 28.2 17 10 US-10-901-897-22 Sequence 2, 29 28.2 17 10 US-10-901-897-22 Sequence 2, 29 28.2 18 14 US-10-901-897-5 Sequence 1, 29 28.2 18 14 US-10-902-367-137 Sequence 1, 29 28.2 18 14 US-10-902-367-137 Sequence 1, 28 2 28.2 18 14 US-10-105-23-9 Sequence 1, 28 2 27.7 19 14 US-10-186-61.3 Sequence 1, 28 27.7 19 14 US-10-186-23-13 Sequence 1, 28 27.7 19 14 US-10-186-431-3 Sequence 3, 28 27.2 14 US-10-189-437-105 Sequence 3, 28 27.2 14 US-10-189-437-105 Sequence 3, 28 27.2 14 US-10-189-437-118 Sequence 3, 28 27.2 14 US-10-902-367-13 Sequence 3, 28 27.2 14 US-10-902-367-16 Sequence 3, 28 27.2 14 US-10-902-367-18 Sequence 1, 28 27.2 14 US-10-902-367-18 Sequenc	29.1 18 16 US-10-775-433-4 Sequence 4, 29.1 18 17 US-10-191-732-4 Sequence 4, 29.1 19 15 US-10-191-732-4 Sequence 65 29.1 20 16 US-10-776-013-657 Sequence 65 29.1 20 17 US-10-486-924-1 Sequence 65 29.1 20 17 US-10-486-924-1 Sequence 1, 29.1 20 17 US-10-486-924-2 Sequence 45 28.2 10 15 US-10-380-147-45 Sequence 45 28.2 17 10 US-10-901-897-22 Sequence 22 28.2 17 10 US-10-901-897-22 Sequence 23 28.2 17 10 US-10-901-897-22 Sequence 23 28.2 18 14 US-10-902-367-13 Sequence 15 28.2 18 14 US-10-902-367-13 Sequence 15 28.2 18 14 US-10-902-367-13 Sequence 15 28.2 18 14 US-10-105-212-118 Sequence 17 10 US-10-105-212-118 Sequence 17 10 US-10-105-212-118 Sequence 17 11 US-10-105-212-118 Sequence 17 12 US-10-105-212-118 Sequence 17 12 US-10-105-212-118 Sequence 17 12 US-10-105-212-118 Sequence 18 27.7 19 14 US-10-105-212-118 Sequence 18 27.7 19 US-09-966-955A-35 Sequence 18 US-09-966-955A-	29. 29.1 18 16 US 30 29.1 18 16 US 30 29.1 19 17 US 30 29.1 20 17 US 30 29.2 13 15 US 30 28.2 17 17 US 30 28.2 18 14 US 30 28.5 27.7 19 14 US 31 28.5 27.7 19 14 US 32 28.5 27.7 19 14 US 33 28.5 27.7 19 14 US 34 28.5 27.7 19 14 US 35 28.5 27.7 19 US 36 27.2 14 9 US 37 28 27.2 18 US 38 27.2 18 US 38 27.2 18 US 38 27.2 18 US 39 US 30 US 30 US 30 US 31 US 32 US 33 US 34 US 35 US 36 US 37 US 38 US 38 US 38 US 38 US 39 US 30 US 30 US 30 US 30 US 31 US 31 US 32 US 33 US 34 US 35 US 36 US 37 US 38 US 38 US 38 US 39 US 30 US 30 US 30 US 31 US 31 US 32 US 33 US 34 US 35 US 36 US 37 US 38 U	Sequence 4, Sequence 6, Sequence 1, Sequence 1, Sequence 23, Sequence 23, Sequence 23, Sequence 23, Sequence 23, Sequence 13, Sequence 13, Sequence 13, Sequence 11
1 30 29.1 18 17 US.10-191-732-4 Sequence 4, 20 29.1 19 15 US.10-156-794A-65 Sequence 65 30 29.1 20 16 US.10-76-013-657 Sequence 1, 20 29.1 20 17 US.10-486-924-1 Sequence 1, 20 29.2 10 17 US.10-486-924-2 Sequence 1, 20 29 28.2 10 15 US.10-486-924-2 Sequence 2, 29 28.2 10 15 US.10-380-147-45 Sequence 2, 29 28.2 17 US.10-930-91-92-2 Sequence 2, 29 28.2 17 US.10-930-91-92-2 Sequence 2, 29 28.2 18 14 US.10-91-897-22 Sequence 2, 29 28.2 18 14 US.10-91-897-22 Sequence 2, 29 28.2 18 14 US.10-92-367-137 Sequence 1, 29 28.2 18 14 US.10-092-367-137 Sequence 1, 29 28.2 18 14 US.10-092-367-153 Sequence 3, 29 28.2 18 14 US.10-210-023-98 Sequence 1, 29 28.2 18 14 US.10-210-023-98 Sequence 1, 29 28.2 18 14 US.10-10-23-98 Sequence 1, 29 28.2 18 14 US.10-10-23-137 Sequence 1, 29 28.5 18 14 US.10-10-33-38 Sequence 1, 28 27.7 19 14 US.10-105-237-118 Sequence 1, 28 27.2 17 19 14 US.10-109-33-131 Sequence 1, 28 27.2 17 US.10-186-69-55A-35 Sequence 1, 28 27.2 17 US.10-189-437-118 Sequence 1, 28 27.2 17 US.10-189-437-118 Sequence 1, 28 27.2 18 14 US.10-189-437-118 Sequence 1, 28 27.2 18 US.10-98-68-955A-35 Sequence 1, 28 27.2 18 US.10-98-68-955A-35 Sequence 1, 28 27.2 18 US.10-98-68-955A-35 Sequence 1, 28 27.2 18 US.10-98-88-98-98-98-98-98-98-98-98-98-98-98-	1 30 29.1 18 17 US-10-191-732-4 Sequence 4, 30 29.1 19 15 US-10-262-794A-65 Sequence 65 30 29.1 2 0 16 US-10-766-013-657 Sequence 65 30 29.1 2 0 17 US-10-486-924-1 Sequence 1, 29 28.2 10 15 US-10-486-924-2 Sequence 2, 29 28.2 10 15 US-10-486-924-2 Sequence 4, 29 28.2 17 US-10-486-924-2 Sequence 4, 29 28.2 17 US-10-901-897-2 Sequence 2, 29 28.2 17 US-10-901-897-2 Sequence 2, 29 28.2 18 14 US-10-902-367-15 Sequence 2, 29 28.2 18 14 US-10-902-367-15 Sequence 2, 29 28.2 18 14 US-10-902-367-15 Sequence 3, 29 28.2 18 14 US-10-902-367-15 Sequence 1, 29 28.2 18 14 US-10-102-367-15 Sequence 1, 29 28.2 18 14 US-10-102-367-15 Sequence 3, 29 28.2 18 14 US-10-102-367-15 Sequence 3, 29 28.2 18 14 US-10-105-237-15 Sequence 3, 28 2 27.7 19 14 US-10-105-232-118 Sequence 1, 28 27.2 19 14 US-10-105-232-118 Sequence 1, 28 27.2 14 US-10-105-232-13 Sequence 3, 28 27.2 18 14 US-10-105-232-13 Sequence 3, 28 27.2 18 14 US-10-105-237-13 Sequence 3, 28 27.2 18 14 US-10-105-237-13 Sequence 3, 28 27.2 18 14 US-10-105-237-13 Sequence 3, 28 27.2 18 14 US-10-105-2367-16 Sequence 1, 28 27.2 18 US-10-105-2367-16 Sequence 1, 28 27.2 18 US-10-105-2367-16 Sequence 1, 28 27.2 18 US-10-	30 29.1 18 17 US-10-191-732-4 Sequence 45, 30 29.1 19 15 US-10-262-744A-65 Sequence 65 30 29.1 2 0 16 US-10-76-013-657 Sequence 15, 30 29.1 2 0 17 US-10-76-013-657 Sequence 1, 20 17 US-10-486-924-1 Sequence 1, 20 17 US-10-886-924-2 Sequence 1, 20 17 US-10-8912-2 Sequence 2, 29 28.2 1 10 15 US-10-8912-464-22 Sequence 22 28.2 1 17 10 US-09-8912-464-22 Sequence 22 29 28.2 1 17 10 US-09-986-955A-23 Sequence 23, 28.2 1 17 10 US-09-986-955A-23 Sequence 23, 28.2 1 18 14 US-10-901-87-22 Sequence 1, 29 28.2 1 18 14 US-10-902-367-153 Sequence 1, 29 28.2 1 18 14 US-10-902-367-153 Sequence 1, 29 28.2 1 18 14 US-10-902-367-153 Sequence 1, 28.5 27.7 1 19 14 US-10-186-681-3 Sequence 1, 28.5 27.7 1 19 14 US-10-189-437-118 Sequence 1, 28.5 27.7 1 19 US-09-886-955A-35 Sequence 1, 28.5 27.7 1 19 US-09-886-955A-35 Sequence 1, 28.5 27.7 1 19 US-09-886-955A-35 Sequence 1, 28.5 27.7 1 10 US-09-886-955A-35 Sequence 1, 28.5 27.2 1 14 US-10-092-367-165 Sequence 1, 28.5 27.2 1 14 US-10-092-367-185 Sequence 1, 28.5	29.1 18 17 US-10-191-732-4 Sequence 4, 29.1 20 16 US-10-262-794A-65 Sequence 65 29.1 2 0 16 US-10-76-013-657 Sequence 65 29.1 2 0 17 US-10-76-013-657 Sequence 1, 29.1 20 17 US-10-86-924-1 Sequence 1, 29.1 20 17 US-10-86-924-2 Sequence 2, 28.2 10 15 US-10-301-47-5 Sequence 45 28.2 17 10 US-09-8812-464-22 Sequence 23, 28.2 17 10 US-09-966-955A-23 Sequence 23, 28.2 17 10 US-09-966-955A-23 Sequence 23, 28.2 18 14 US-10-901-897-22 Sequence 23, 28.2 18 14 US-10-901-897-23 Sequence 23, 28.2 18 14 US-10-902-367-153 Sequence 34, 28.2 18 14 US-10-092-367-153 Sequence 34, 28.2 18 14 US-10-186-613 Sequence 34, 27.7 19 14 US-10-186-613 Sequence 11, 27.7 19 14 US-10-186-413 Sequence 11, 27.7 19 14 US-10-189-437-118 Sequence 3, 27.2 14 US-10-189-437-118 Sequence 3, 27.2 14 US-10-92-367-159 Sequence 3, 27.2 14 US-10-092-367-169 Sequence 18, 27.2 18 14 US-10-092-367-169 Sequence 3, 27.2 18 US-09-966-955A-35 Sequence 3, 27.2 18 US-09-966-955A-35 Sequence 3, 27.2 18 US-09-966-955A-35 Sequence 18, 27.2 18 US-09-966-955A-35 Sequence 3, 27.2 18 US-09-966-955A-35 Sequence 18, 27.2 18 US-09-966-955A-35 Sequence 3, 27.2 18 US-09-	1 30 29.1 18 17 US 2 30 29.1 19 15 US 2 30 29.1 10 15 US 2 29 28.2 10 17 US 2 29 28.2 17 10 US 2 29 28.2 18 14 US 2 29 28.2 18 14 US 2 28.5 27.7 19 14 US 2 28.5 27.7 19 14 US 2 28.5 27.7 19 14 US 3 28.5 27.7 19 US 4 28.5 27.7 19 US 4 28.5 27.7 19 US 5 28.5 27.7 19 US 6 28.5 27.7 19 US 6 28.5 27.7 19 US 7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.	Sequence 45 Sequence 65 Sequence 17 Sequence 22 Sequence 22 Sequence 22 Sequence 23 Sequence 23 Sequence 23 Sequence 15 Sequence 15 Sequence 15 Sequence 39 Sequence 39 Sequence 17 Sequence 13
29 29.1 19 15 US-10-262-794A-65 Sequence 65 30 29.1 20 16 US-10-76-013-657 Sequence 65 30 29.1 20 17 US-10-486-924-1 Sequence 67 29 28.2 10 15 US-10-486-924-2 Sequence 27 29 28.2 13 15 US-10-486-924-2 Sequence 27 29 28.2 13 15 US-10-486-924-2 Sequence 27 29 28.2 17 10 US-09-812-464-22 Sequence 27 29 28.2 18 14 US-10-901-897-22 Sequence 27 29 28.2 18 14 US-10-901-897-22 Sequence 27 29 28.2 18 14 US-10-902-367-137 Sequence 27 29 28.2 18 14 US-10-092-367-137 Sequence 27 29 28.2 18 14 US-10-092-367-153 Sequence 98 29 28.2 18 14 US-10-092-367-153 Sequence 98 28.2 18 16 US-10-31-34-342 Sequence 98 28.2 20 18 16 US-10-210-023-98 Sequence 98 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-13 Sequence 11 28.5 27.7 19 14 US-10-105-232-13 Sequence 35 28.2 27.7 19 14 US-10-105-232-13 Sequence 11 28.5 27.7 19 14 US-10-105-232-13 Sequence 35 28.2 27.2 14 US-10-105-232-13 Sequence 35 28 27.2 18 US-10	29.1 19 15 US-10-262-794A-65 Sequence 65 30 29.1 20 16 US-10-76-013-657 Sequence 65 30 29.1 20 17 US-10-486-924-1 Sequence 67 29 28.2 10 15 US-10-486-924-2 Sequence 27, 29 28.2 13 15 US-10-486-924-2 Sequence 27, 29 28.2 17 10 US-09-832-464-22 Sequence 22, 28.2 17 10 US-09-832-464-22 Sequence 22, 29 28.2 18 14 US-10-901-897-22 Sequence 23, 28.2 18 14 US-10-901-897-22 Sequence 23, 29 28.2 18 14 US-10-901-897-22 Sequence 23, 29 28.2 18 14 US-10-902-367-137 Sequence 23, 29 28.2 18 14 US-10-902-367-137 Sequence 98 29 28.2 18 14 US-10-092-367-137 Sequence 98 29 28.2 18 14 US-10-210-23-98 Sequence 98 28.5 27.7 19 14 US-10-105-232-118 Sequence 34 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-13 Sequence 11 28.5 27.7 19 14 US-10-105-232-13 Sequence 11 28.5 27.7 19 14 US-10-105-232-13 Sequence 35, 28 27.2 18 14 US-10-105-232-13 Sequence 11 28.5 27.7 19 US-09-966-955A-35 Sequence 12 28 27.2 18 14 US-10-105-237-13 Sequence 12 28 27.2 18 14 US-10-105-367-165 Sequence 18 28 27.2 18 14 US-10-092-367-165 Sequence 18 28 27.2 18 14 US-10-092-367-165 Sequence 18	30 29.1 19 15 US-10-262-794A-65 Sequence 65 30 29.1 20 17 US-10-486-924-2 Sequence 65 30 29.1 20 17 US-10-486-924-2 Sequence 65 29 28.2 13 20 17 US-10-486-924-2 Sequence 45 29 28.2 13 15 US-10-486-924-2 Sequence 45 29 28.2 13 15 US-10-486-924-2 Sequence 45 29 28.2 17 10 US-09-966-954-2 Sequence 22 28.2 18 14 US-10-91-897-22 Sequence 22 28.2 18 14 US-10-92-367-5 Sequence 23 28.2 18 14 US-10-92-367-5 Sequence 23 28.2 18 14 US-10-92-367-137 Sequence 13 29 28.2 18 14 US-10-92-367-137 Sequence 34 29 28.2 18 14 US-10-92-367-15 Sequence 37 29 28.2 18 14 US-10-10-23-98 Sequence 37 28.2 18 14 US-10-10-23-98 Sequence 37 28.5 27.7 19 14 US-10-165-232-118 Sequence 11 28.5 27.7 19 14 US-10-186-681-3 Sequence 11 28.5 27.7 19 14 US-10-189-437-118 Sequence 11 28.5 27.7 19 14 US-10-189-437-118 Sequence 11 28.5 27.7 19 US-09-886-955A-3 Sequence 11 28.7 2 18 US-09-886-955A-3 Sequence 11 28.7 2 18 US-09-986-955A-3 Sequence 11 28.7 2 18 US-09-986-955A-3 Sequence 18 27.2 18 US-09-986-955A-3 Sequence 18 28.2 17 US-09-986-955A-3 Sequence 18 27.2 18 US-09-	29.1 19 15 US-10-262-794A-65 Sequence 65 29.1 20 16 US-10-76-013-657 Sequence 65 29.1 20 17 US-10-486-924-1 Sequence 65 29.1 20 17 US-10-486-924-2 Sequence 45 28.2 13 15 US-10-380-14-45 Sequence 45 28.2 13 15 US-10-380-14-45 Sequence 45 28.2 13 15 US-10-380-14-22 Sequence 22 28.2 17 10 US-09-966-955A-23 Sequence 22 28.2 18 14 US-10-92-367-137 Sequence 15 28.2 18 14 US-10-92-367-137 Sequence 16 US-10-92-367-15 Sequence 17 US-10-186-681-3 Sequence 17 US-10-186-681-3 Sequence 17 US-10-186-681-3 Sequence 17 US-10-189-437-105 Sequence 18 27.7 19 14 US-10-189-437-105 Sequence 18 27.7 19 14 US-10-189-437-105 Sequence 18 27.7 19 14 US-10-092-367-169 Sequence 18 27.2 14 US-10-092-367-169 Sequence 18 27.2 18 US-10-092-367-185 Sequence 18 27.2 US-09-966-958-367-186 Sequence 18 27.2 US-09-966-958-367-186 Sequence 18 27.2 US-09-966-958-367-186 Sequence 18 27.2 US-09-968-367-186 Sequence 18 27.2 US-09-968-367-18 US-0	2 30 29.1 19 15 US 29.1 30 29.1 20 16 US 29.1 20 17 US 29.1 20 17 US 29.1 20 17 US 29.1 20 17 US 29 28.2 13 15 US 29 28.2 14 US 29 28.2 18 14 US 29 28.2 18 14 US 29 28.2 18 14 US 28.5 27.7 19 US 28.5 27.7 19 US 28.7	Sequence 65 Sequence 65 Sequence 27 Sequence 45 Sequence 42 Sequence 22 Sequence 23 Sequence 23 Sequence 35 Sequence 38 Sequence 11 Sequence 11 Sequence 13 Sequence 13 Sequence 13 Sequence 13 Sequence 13 Sequence 35 Sequence 13 Sequence 35 Sequence 13 Sequence 35
3 30 29.1 20 16 US.10-776-013-657 Sequence 65 30 29.1 20 17 US-10-486-924-1 Sequence 1, 29 28.2 10 15 US-10-486-924-2 Sequence 1, 29 28.2 10 15 US-10-486-924-2 Sequence 45 29 28.2 17 US-10-486-924-2 Sequence 45 29 28.2 17 US-10-486-924-2 Sequence 22 29 28.2 17 US-10-901-897-22 Sequence 22 29 28.2 18 14 US-10-901-897-22 Sequence 23, 29 28.2 18 14 US-10-901-897-23 Sequence 13 29 28.2 18 14 US-10-902-367-5 Sequence 13 29 28.2 18 14 US-10-902-367-15 Sequence 13 29 28.2 18 14 US-10-902-367-98 Sequence 13 29 28.2 18 14 US-10-902-367-153 Sequence 14 US-10-210-92-367-153 Sequence 15 US-10-302-367-153 Sequence 15 US-10-302-367-167-98 Sequence 17 US-10-10-210-98 Sequence 17 US-10-10-210-13-13-13-13-13-13-13-13-13-13-13-13-13-	3 30 29.1 20 16 US.10-776-013-657 Sequence 65 30 29.1 20 17 US.10-486-924-1 Sequence 1, 29 28.2 10 15 US.10-486-924-2 Sequence 1, 29 28.2 10 15 US.10-486-924-2 Sequence 45 29 28.2 17 10 US.10-486-924-2 Sequence 45 29 28.2 17 10 US.10-901-897-22 Sequence 22 29 28.2 17 17 US.10-901-897-22 Sequence 22 29 28.2 18 14 US.10-901-897-22 Sequence 23 29 28.2 18 14 US.10-902-367-5 Sequence 15 29 28.2 18 14 US.10-092-367-137 Sequence 15 29 28.2 18 14 US.10-092-367-153 Sequence 15 29 28.2 18 14 US.10-092-367-153 Sequence 15 29 28.2 18 14 US.10-10-210-093 Sequence 15 28.2 27.7 19 14 US.10-106-681-3 Sequence 17 17 19 US.10-106-232-13 Sequence 17 18 US.10-106-332-13 Sequence 17 18 US.10-106-332-13 Sequence 17 18 US.10-108-332-13 Sequence 18 28.5 27.7 19 14 US.10-108-332-13 Sequence 18 28.5 27.7 19 14 US.10-108-332-13 Sequence 18 28.5 27.7 19 US.09-96-955A-35 Sequence 18 28.5 27.2 18 14 US.10-189-437-116 Sequence 18 28.2 27.2 18 14 US.10-189-437-116 Sequence 18 28.2 27.2 18 14 US.10-189-437-116 Sequence 18 28.2 27.2 18 14 US.10-092-367-169 Sequence 18 28.2 27.2 18 14 US.10-092-367-169 Sequence 18 28.2 27.2 18 14 US.10-092-367-169 Sequence 18	30 29.1 20 16 US-10-776-013-657 Sequence 65 30 29.1 20 17 US-10-486-924-1 Sequence 1, 30 29.1 20 17 US-10-486-924-1 Sequence 1, 20 20 17 US-10-486-924-2 Sequence 45 29 28.2 10 15 US-10-380-147-45 Sequence 45 29 28.2 17 10 US-09-832-464-22 Sequence 22 29 28.2 17 10 US-09-832-464-22 Sequence 23 28.2 17 10 US-09-966-955A-23 Sequence 23 28.2 18 14 US-10-092-367-137 Sequence 15 29 28.2 18 14 US-10-105-23-98 Sequence 15 28.5 27.7 19 14 US-10-186-681-3 Sequence 17 28.5 27.7 19 14 US-10-189-437-105 Sequence 17 28.5 27.7 19 14 US-10-189-437-118 Sequence 38 27.2 14 US-10-092-367-139 Sequence 18 28.5 27.7 19 14 US-10-189-437-118 Sequence 38 27.2 18 14 US-10-092-367-169 Sequence 18 28.2 17 2 18 14 US-10-092-367-169 Sequence 18 28.2 17 2 18 14 US-10-092-367-169 Sequence 18 28.2 18 14 US-10-092-367-169 Sequence 18 27.2 18 14 US-10-092-367-169 Sequence 18 28.2 18 14 US-10-092-367-189 Sequence 18 27.2 18 US-09-086-085-085-085-085-085-085-085-085-085-085	29.1 20 16 US-10-776-013-657 Sequence 65: 29.1 20 17 US-10-486-924-1 Sequence 1, 29.1 20 17 US-10-486-924-2 Sequence 2, 28.2 10 15 US-10-486-924-2 Sequence 45: 28.2 10 15 US-10-486-924-2 Sequence 45: 28.2 17 17 US-10-910-897-22 Sequence 22: 28.2 17 17 US-10-910-897-22 Sequence 23: 28.2 18 14 US-10-92-367-13 Sequence 57: 28.2 18 14 US-10-92-367-15 Sequence 15: 28.2 18 14 US-10-10-23-98 Sequence 15: 28.2 18 16 US-10-86-681-3 Sequence 17: 27.7 19 14 US-10-105-232-118 Sequence 17: 27.7 19 14 US-10-105-232-13 Sequence 13: 27.7 19 14 US-10-105-232-13 Sequence 13: 27.7 19 14 US-10-105-332-13 Sequence 15: 27.7 19 14 US-10-105-332-13 Sequence 15: 27.2 14 US-10-92-367-169 Sequence 16: 27.2 18 US-10-92-367-169 Sequence 16: 27.2 US-20030185847A1	3 30 29.1 20 16 UG 5 29 28.2 10 17 UG 6 29 28.2 10 17 UG 7 29 28.2 11 10 UG 8 29 28.2 17 10 UG 9 29 28.2 17 10 UG 1 29 28.2 17 10 UG 2 29 28.2 18 14 UG 2 29 28.2 18 UG 2 28.5 27.7 19 UG 2 2 27.2 18 UG 2 2 2 27.2 18 UG 2 2 27.2 18	Sequence 65: Sequence 1: Sequence 45: Sequence 42: Sequence 23: Sequence 23: Sequence 13: Sequence 14: Sequence 15: Sequence 15: Sequence 11: Sequence 13: Sequence 13: Sequence 13:
4 30 29.1 20 17 US.10-486-924-1 Sequence 1, 29 28.2 10 15 US.10-486-924-2 Sequence 2, 29.2 2 10 15 US.10-386-924-2 Sequence 4, 22 28.2 10 15 US.10-380-147-45 Sequence 4, 22 28.2 17 10 US.09-812-464-22 Sequence 2, 29 28.2 17 17 US.10-91-897-22 Sequence 2, 29 28.2 18 14 US.10-91-897-23 Sequence 2, 29 28.2 18 14 US.10-92-367-15 Sequence 1, 29 28.2 18 14 US.10-10-10-23-9 Sequence 1, 29 28.2 18 14 US.10-10-10-3-367-15 Sequence 1, 39 28.5 2 1, 39 14 US.10-10-10-3-3 Sequence 1, 39 28.5 2 1, 39 14 US.10-10-13-32-118 Sequence 1, 39 28.5 2 1, 39 14 US.10-105-232-118 Sequence 1, 39 28.5 2 1, 39 14 US.10-105-232-118 Sequence 1, 39 28.5 2 1, 39 14 US.10-105-32-118 Sequence 1, 39 28.5 2 1, 39 14 US.10-108-437-105 Sequence 1, 39 28.2 1, 39 14 US.10-108-437-105 Sequence 3, 30 28.2 1, 30 28.5 35 25 25 25 25 25 25 25 25 25 25 25 25 25	4 30 29.1 20 17 US.10-486-924-1 Sequence 1, 29 28.2 10 15 US.10-486-924-2 Sequence 2, 29 28.2 10 15 US.10-486-924-2 Sequence 2, 29 28.2 10 15 US.10-486-422 Sequence 42 29 28.2 17 10 US.09-9132-44-22 Sequence 23, 29 28.2 17 10 US.09-96-955A-23 Sequence 23, 29 28.2 18 14 US.10-901-897-5 Sequence 23, 29 28.2 18 14 US.10-902-367-137 Sequence 23, 29 28.2 18 14 US.10-92-367-137 Sequence 15 29 28.2 18 14 US.10-092-367-137 Sequence 15 29 28.2 18 14 US.10-092-367-137 Sequence 15 29 28.2 18 14 US.10-105-236-198 Sequence 15 29 28.2 18 14 US.10-105-236-198 Sequence 16 US.10-867-460-98 Sequence 17 10 US.10-106-232-118 Sequence 17 10 US.10-106-232-118 Sequence 17 28 27.7 19 14 US.10-106-232-118 Sequence 18 28.5 27.7 19 14 US.10-105-232-118 Sequence 18 28 27.2 18 14 US.10-105-232-13 Sequence 18 28 27.2 18 14 US.10-109-2367-165 Sequence 18 28 27.2 18 14 US.10-109-2367-165 Sequence 18 28 27.2 18 14 US.10-109-2367-169 Sequence 18 28 27.2 18 14 US.10-109-2367-169 Sequence 18	30 29.1 20 17 US-10-486-924-1 Sequence 1, 29 28.2 10 15 US-10-486-924-2 Sequence 2, 29 28.2 10 15 US-10-486-924-2 Sequence 4, 22 28.2 10 US-09-8812-464-22 Sequence 4, 22 28.2 17 10 US-09-8812-464-22 Sequence 22 29 28.2 17 10 US-09-8812-464-22 Sequence 23 28.2 17 17 US-10-901-897-22 Sequence 23 28.2 18 14 US-10-902-367-5 Sequence 23 28.2 18 14 US-10-92-367-137 Sequence 34 29 28.2 18 15 US-10-131-314-342 Sequence 34 28.2 18 15 US-10-186-611-3 Sequence 10 US-10-186-611-3 Sequence 11 US-10-189-437-105 Sequence 11 US-10-189-437-105 Sequence 11 US-10-189-437-105 Sequence 35 27.7 19 14 US-10-189-437-105 Sequence 35 27.2 17 19 US-09-86-955A-35 Sequence 35 27.2 18 14 US-10-189-437-118 Sequence 35 27.2 18 14 US-10-99-36-433-35 Sequence 35 27.2 18 US-09-86-955A-35 Sequence 18 27.2 18 US-10-99-36-433-35 Sequence 18 27.2 18 US-10-99-36-433-38 Sequence 18 28 27.2 18 US-10-99-36-433-35 Sequence 18 28 27.2 18 US-10-99-36-433-35 Sequence 18 27.2 18 US-09-98-36-433-35 Sequence 18 27.2 18 US-09-98-38-433-35 Sequence 18 27.2 18 US-09	29.1 20 17 US-10-486-924-1 Sequence 1, 28.1 10 US-10-486-924-2 Sequence 2, 28.2 10 15 US-10-386-922-2 Sequence 4, 28.2 10 15 US-10-386-922-2 Sequence 4, 28.2 17 10 US-99-887-92 Sequence 23, 28.2 17 10 US-99-887-92 Sequence 23, 28.2 17 10 US-99-966-955A-23 Sequence 23, 28.2 18 14 US-10-901-897-5 Sequence 23, 28.2 18 14 US-10-902-367-137 Sequence 15 Sequence 15 US-10-802-367-137 Sequence 15 US-10-902-367-137 Sequence 15 US-10-902-367-137 Sequence 15 US-10-902-367-137 Sequence 15 US-10-186-681-3 Sequence 17 US-10-186-681-3 Sequence 17 US-10-186-681-3 Sequence 17 US-10-186-681-3 Sequence 17 US-10-189-437-105 Sequence 17 US-10-189-437-105 Sequence 17 US-10-189-437-105 Sequence 18 US-10-092-367-169 Sequence 18 US-10-092-367-185 Sequence 18 US-10-092-36	29 29.1 20 17 US 29 28.2 10 17 US 29 28.2 11 10 15 US 29 28.2 17 10 US 29 28.2 18 14 US 28 28.5 27.7 19 14 US 28 27.7 19 14 US 28 27.7 19 14 US 28 27.7 19 US 38 27.7 19 US 38 27.7 19 US 39 28.5 27.7 US 30 28.5 27.7 US 30 28.5 27.7 US 31 28.5 27.7 US 32 28.5 27.7 US 33 28.5 27.7 US 34 US 35 27.7 US 36 27.7 US 37 28 27.7 US 38 27.7 US 39 US 30 US 30 US 30 US 31 US 32 US 33 US 34 US 35 US 36 US 37 US 38 US 38 US 38 US 39 US 30	Sequence 1, Sequence 2, Sequence 42 Sequence 22 Sequence 23, Sequence 13 Sequence 13 Sequence 34 Sequence 34 Sequence 34 Sequence 13
5 30 29.1 20 17 US-10-486-924-2 Sequence 45 6 29 28.2 10 15 US-10-436-147-45 Sequence 45 9 29 28.2 17 10 US-09-832-464-22 Sequence 22 9 29 28.2 17 10 US-09-832-464-22 Sequence 22 9 29 28.2 18 1 US-09-96-95A-23 Sequence 23 1 29 28.2 18 14 US-10-092-367-13 Sequence 23 2 28.2 18 14 US-10-092-367-13 Sequence 13 4 29 28.2 18 14 US-10-092-367-13 Sequence 13 5 29 28.2 18 14 US-10-092-367-13 Sequence 13 5 29 28.2 18 14 US-10-10-23-98 Sequence 34 6 29 28.2 18 14 US-10-186-681-3 Sequence 11 7 29 <	29 29.1 10 15 US-10-486-924-2 Sequence 2, 29 28.2 10 15 US-10-436-115-45 Sequence 45 29 28.2 13 15 US-10-436-115-422 Sequence 45 29 28.2 13 15 US-10-436-122 Sequence 22 29 28.2 13 15 US-10-436-122 Sequence 22 29 28.2 18 14 US-10-901-897-22 Sequence 23, 29 28.2 18 14 US-10-902-367-5 Sequence 23, 29 28.2 18 14 US-10-92-367-137 Sequence 23, 29 28.2 18 14 US-10-92-367-137 Sequence 23, 29 28.2 18 14 US-10-92-367-153 Sequence 34 29 28.2 18 14 US-10-92-367-153 Sequence 34 29 28.2 18 15 US-10-210-023-367-153 Sequence 34 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-13 Sequence 11 28.5 27.7 19 14 US-10-105-232-13 Sequence 11 28.5 27.7 19 US-09-966-958A-35 Sequence 35, 28 27.2 14 US-10-189-437-118 Sequence 11 28.5 27.7 19 US-09-966-958A-35 Sequence 35, 28 27.2 14 US-10-189-437-118 Sequence 35, 28 27.2 14 US-10-189-437-118 Sequence 11 28.5 27.7 19 US-09-966-958A-35 Sequence 36 28 27.2 18 US-09-966-958A-35 Sequence 38 27.2 18 US-10-092-367-185 Sequence 18	29 28.2 10 15 US-10-380-14-45 Sequence 2, 29 28.2 13 15 US-10-380-14-45 Sequence 45 Sequence 45 29 28.2 13 15 US-10-380-14-45 Sequence 45 29 28.2 13 15 US-09-966-9522 Sequence 22 28.2 17 10 US-09-966-9532-2 Sequence 22 28.2 18 14 US-10-92-367-5 Sequence 23 28.2 18 14 US-10-92-367-137 Sequence 13 28.2 18 14 US-10-92-367-137 Sequence 13 28.2 18 14 US-10-92-367-153 Sequence 13 28.2 18 14 US-10-92-367-153 Sequence 13 28.2 18 14 US-10-10-23-98 Sequence 34 28.2 18 15 US-10-351-34-34 Sequence 34 28.2 28.2 18 14 US-10-10-23-98 Sequence 37 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-186-681-3 Sequence 11 28.5 27.7 19 14 US-10-189-437-105 Sequence 11 28.5 27.7 19 14 US-10-189-437-105 Sequence 11 28.2 27.2 14 US-10-189-437-118 Sequence 11 28.2 27.2 18 14 US-10-189-437-118 Sequence 11 28.2 27.2 18 14 US-10-092-367-169 Sequence 18 28.2 27.2 18 14 US-10-92-367-169 Sequence 18 28.2 27.2 18 14 US-10-92-367-169 Sequence 18 28.2 27.2 18 14 US-10-092-367-169 Sequence 18	29.1 20 17 US-10-486-924-2 Sequence 2, 28.2 13 15 US-10-380-14-45 Sequence 45 Sequence 45 US-10-380-14-45 Sequence 45 US-10-380-14-45 Sequence 45 US-28.2 13 15 US-0-9812-44-22 Sequence 22 US-28.2 18 US-09-966-955A-23 Sequence 22 US-28.2 18 US-10-99-966-955A-23 Sequence 25 US-28.2 18 US-10-92-367-137 Sequence 15 US-10-92-367-137 Sequence 15 US-10-92-367-137 Sequence 15 US-10-92-367-137 Sequence 15 US-10-92-367-153 Sequence 34 US-10-92-367-153 Sequence 34 US-10-92-367-153 Sequence 15 US-10-92-367-118 Sequence 17 US-10-189-437-118 Sequence 17 US-10-189-437-118 Sequence 17 US-10-189-437-118 Sequence 18 US-10-189-437-118 Sequence 18 US-10-92-367-169 Sequence 18 US-10-92-367-169 Sequence 18 US-10-92-367-169 Sequence 18 US-10-92-367-185 S	29 28.2 13 15 15 16 15 18 18 18 18 18 18 18 18 18 18 18 18 18	Sequence 25. Sequence 45. Sequence 22. Sequence 23. Sequence 23. Sequence 13. Sequence 13. Sequence 34. Sequence 34. Sequence 37. Sequence 13.
6 29 28.2 10 15 US-10-380-147-45 Sequence 45 7 29 28.2 17 10 US-09-936-464-22 Sequence 42 9 29 28.2 17 17 US-10-901-897-22 Sequence 22 10 29 28.2 17 17 US-09-966-955A-23 Sequence 23 2 28.2 18 14 US-09-966-955A-23 Sequence 23 2 28.2 18 14 US-10-092-367-5 Sequence 13 3 29 28.2 18 14 US-10-092-367-153 Sequence 15 4 29 28.2 18 14 US-10-1092-367-153 Sequence 15 5 29 28.2 18 14 US-10-1092-367-153 Sequence 15 6 29 28.2 18 16 US-10-210-98 Sequence 17 7 29 28.2 18 16 US-10-105-321-118 Sequence 13 8 27.7 19 <td>29 28.2 10 15 US-10-380-147-45 Sequence 45 29 28.2 13 15 US-10-380-147-45 Sequence 42 29 28.2 17 10 US-10-901-897-22 Sequence 22 29 28.2 17 17 US-10-901-897-22 Sequence 22 29 28.2 18 14 US-10-905-367-35 Sequence 23 29 28.2 18 14 US-10-902-367-153 Sequence 13 29 28.2 18 14 US-10-902-367-153 Sequence 13 29 28.2 18 14 US-10-902-367-153 Sequence 13 29 28.2 18 14 US-10-902-367-153 Sequence 14 US-10-210-092-367-153 Sequence 15 28 28 2 2 2 18 15 US-10-351-343-342 Sequence 34 28 28 2 2 2 2 18 15 US-10-351-334-342 Sequence 17 12 28 27.7 19 14 US-10-105-232-118 Sequence 10 28 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td> <td>29 28.2 10 15 US-10-380-147-45 Sequence 45 29 28.2 13 15 US-10-36-122 Sequence 42 29 28.2 17 US-10-910-897-22 Sequence 22 28.2 17 17 US-10-901-897-22 Sequence 22 28.2 17 17 US-10-901-897-22 Sequence 23 28.2 18 14 US-10-902-367-15 Sequence 57 29 28.2 18 14 US-10-092-367-15 Sequence 57 29 28.2 18 14 US-10-092-367-15 Sequence 57 29 28.2 18 14 US-10-092-367-15 Sequence 98 29 28.2 18 14 US-10-203-98 Sequence 98 29 28.2 18 16 US-10-867-460-98 Sequence 98 28.2 18 16 US-10-867-460-98 Sequence 98 28.2 28.2 18 16 US-10-867-460-98 Sequence 98 28.5 27.7 19 14 US-10-189-437-105 Sequence 11 Sequence 12 28.5 27.7 19 14 US-10-189-437-105 Sequence 13 28.5 27.7 19 14 US-10-189-437-105 Sequence 38 27.2 14 US-10-189-437-105 Sequence 38 27.2 18 14 US-10-99-566-9558-35 Sequence 38 27.2 18 14 US-10-99-367-169 Sequence 38 27.2 18 14 US-10-092-367-169 Sequence 18 28 27.2 18 14 US-10-092-367-169 Sequence 18 28 27.2 18 14 US-10-092-367-169 Sequence 18 28 27.2 18 14 US-10-092-367-185 Sequence 18 28 27.2 18 14 US-10-092-367-185 Sequence 18 28 27.2 18 14 US-10-092-367-185 Sequence 18 28 27.2 18 US-10-98-287-18 Sequence 18 28 27.2 18 US-10-98-287-18 Sequence 18 27.2 18 US-10-98-287-18 Sequence 18 28 27.2 18 US-10-98-287-18 Sequence 18 27.2 US-10-98-2</td> <td>28.2 10 15 US-10-380-117-45 Sequence 45 Sequence 42 US-2</td> <td>29 28.2 10 15 US 29 28.2 17 10 US 29 28.2 17 10 US 29 28.2 17 10 US 29 28.2 17 17 US 29 28.2 18 14 US 29 28.2 18 15 US 6 29 28.2 18 16 US 6 28.5 27.7 19 14 US 28.5 27.7 19 14 US 28.5 27.7 19 14 US 28.5 27.7 19 14 US 28.5 27.7 19 US 29 28.5 27.7 19 US 20 27.2 14 9 US 20 27.2 14 US 20 27.2 14 US 20 27.2 14 US 20 27.2 US 20 27.2 US 21 US 22 US 23 27.2 US 24 US 25 US 26 US 27 US 28 US 29 US 20 US 20 US 20 US 20 US 21 US 22 US 23 US 24 US 25 US 26 US 27 US 28 US 27 US 28 US 27 US 28 US 29 US 20 US 20 US 20 US 21 US 21 US 22 US 23 US 24 US 25 US 26 US 27 US 28 US 27 US 28 US 28 US 29 US 20 US</td> <td>Sequence 45 Sequence 22 Sequence 23, Sequence 23, Sequence 15 Sequence 15 Sequence 34 Sequence 34 Sequence 11 Sequence 11 Sequence 11 Sequence 11 Sequence 11 Sequence 11 Sequence 11</td>	29 28.2 10 15 US-10-380-147-45 Sequence 45 29 28.2 13 15 US-10-380-147-45 Sequence 42 29 28.2 17 10 US-10-901-897-22 Sequence 22 29 28.2 17 17 US-10-901-897-22 Sequence 22 29 28.2 18 14 US-10-905-367-35 Sequence 23 29 28.2 18 14 US-10-902-367-153 Sequence 13 29 28.2 18 14 US-10-902-367-153 Sequence 13 29 28.2 18 14 US-10-902-367-153 Sequence 13 29 28.2 18 14 US-10-902-367-153 Sequence 14 US-10-210-092-367-153 Sequence 15 28 28 2 2 2 18 15 US-10-351-343-342 Sequence 34 28 28 2 2 2 2 18 15 US-10-351-334-342 Sequence 17 12 28 27.7 19 14 US-10-105-232-118 Sequence 10 28 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	29 28.2 10 15 US-10-380-147-45 Sequence 45 29 28.2 13 15 US-10-36-122 Sequence 42 29 28.2 17 US-10-910-897-22 Sequence 22 28.2 17 17 US-10-901-897-22 Sequence 22 28.2 17 17 US-10-901-897-22 Sequence 23 28.2 18 14 US-10-902-367-15 Sequence 57 29 28.2 18 14 US-10-092-367-15 Sequence 57 29 28.2 18 14 US-10-092-367-15 Sequence 57 29 28.2 18 14 US-10-092-367-15 Sequence 98 29 28.2 18 14 US-10-203-98 Sequence 98 29 28.2 18 16 US-10-867-460-98 Sequence 98 28.2 18 16 US-10-867-460-98 Sequence 98 28.2 28.2 18 16 US-10-867-460-98 Sequence 98 28.5 27.7 19 14 US-10-189-437-105 Sequence 11 Sequence 12 28.5 27.7 19 14 US-10-189-437-105 Sequence 13 28.5 27.7 19 14 US-10-189-437-105 Sequence 38 27.2 14 US-10-189-437-105 Sequence 38 27.2 18 14 US-10-99-566-9558-35 Sequence 38 27.2 18 14 US-10-99-367-169 Sequence 38 27.2 18 14 US-10-092-367-169 Sequence 18 28 27.2 18 14 US-10-092-367-169 Sequence 18 28 27.2 18 14 US-10-092-367-169 Sequence 18 28 27.2 18 14 US-10-092-367-185 Sequence 18 28 27.2 18 14 US-10-092-367-185 Sequence 18 28 27.2 18 14 US-10-092-367-185 Sequence 18 28 27.2 18 US-10-98-287-18 Sequence 18 28 27.2 18 US-10-98-287-18 Sequence 18 27.2 18 US-10-98-287-18 Sequence 18 28 27.2 18 US-10-98-287-18 Sequence 18 27.2 US-10-98-2	28.2 10 15 US-10-380-117-45 Sequence 45 Sequence 42 US-2	29 28.2 10 15 US 29 28.2 17 10 US 29 28.2 17 10 US 29 28.2 17 10 US 29 28.2 17 17 US 29 28.2 18 14 US 29 28.2 18 15 US 6 29 28.2 18 16 US 6 28.5 27.7 19 14 US 28.5 27.7 19 14 US 28.5 27.7 19 14 US 28.5 27.7 19 14 US 28.5 27.7 19 US 29 28.5 27.7 19 US 20 27.2 14 9 US 20 27.2 14 US 20 27.2 14 US 20 27.2 14 US 20 27.2 US 20 27.2 US 21 US 22 US 23 27.2 US 24 US 25 US 26 US 27 US 28 US 29 US 20 US 20 US 20 US 20 US 21 US 22 US 23 US 24 US 25 US 26 US 27 US 28 US 27 US 28 US 27 US 28 US 29 US 20 US 20 US 20 US 21 US 21 US 22 US 23 US 24 US 25 US 26 US 27 US 28 US 27 US 28 US 28 US 29 US 20 US	Sequence 45 Sequence 22 Sequence 23, Sequence 23, Sequence 15 Sequence 15 Sequence 34 Sequence 34 Sequence 11
29 28.2 13 15 US-10-456-715-422 Sequence 42 29 28.2 17 10 US-09-832-464-22 Sequence 22 29 28.2 17 10 US-09-832-464-22 Sequence 23 29 28.2 17 10 US-09-96-955A-23 Sequence 23 29 28.2 18 14 US-10-902-367-5 Sequence 23 29 28.2 18 14 US-10-092-367-5 Sequence 23 29 28.2 18 14 US-10-092-367-137 Sequence 13 29 28.2 18 14 US-10-092-367-137 Sequence 13 29 28.2 18 14 US-10-092-367-153 Sequence 13 29 28.2 18 15 US-10-210-02-98 Sequence 13 28.5 27.7 19 14 US-10-186-681-3 Sequence 13 28.5 27.7 19 14 US-10-186-681-3 Sequence 13 28.5 27.7 19 14 US-10-189-437-105 Sequence 13 28.5 27.7 19 14 US-10-189-437-105 Sequence 13 28.5 27.7 19 14 US-10-189-437-105 Sequence 13 28.5 27.7 19 US-10-189-437-118 Sequence 13 28.5 27.2 17 US-10-189-437-118 Sequence 14 28 27.2 18 US-10-092-367-185 Sequence 18	29 28.2 13 15 US-10-456-715-422 Sequence 42 2 29 28.2 17 10 US-09-912-464-22 Sequence 22 29 28.2 17 10 US-09-912-464-22 Sequence 23 2 28.2 17 17 US-10-901-897-22 Sequence 23 2 28.2 18 14 US-10-902-367-137 Sequence 23 2 29 28.2 18 14 US-10-092-367-137 Sequence 15 29 28.2 18 14 US-10-092-367-137 Sequence 15 29 28.2 18 14 US-10-092-367-137 Sequence 15 29 28.2 18 14 US-10-10-23-98 Sequence 16 29 28.2 18 14 US-10-10-23-98 Sequence 17 29 28.2 2 18 16 US-10-867-460-98 Sequence 17 28 27.7 19 14 US-10-105-232-118 Sequence 17 28 27.7 19 14 US-10-105-232-13 Sequence 17 28 27.2 19 14 US-10-105-232-13 Sequence 17 28 27.2 19 14 US-10-105-232-13 Sequence 17 28 27.2 19 US-09-966-955A-35 Sequence 35 28 27.2 18 14 US-10-198-437-116 Sequence 35 28 27.2 18 14 US-10-193-347-169 Sequence 18 28 27.2 18 14 US-10-092-367-169 Sequence 18 28 27.2 18 14 US-10-092-367-169 Sequence 18	29 28.2 13 15 US-10-436-715-422 Sequence 42 29 28.2 17 10 US-09-812-464-22 Sequence 22 28.2 17 10 US-09-912-464-22 Sequence 23 28.2 17 10 US-09-966-955A-23 Sequence 23 28.2 18 14 US-10-901-897-5 Sequence 23 29 28.2 18 14 US-10-902-367-137 Sequence 15 29 28.2 18 14 US-10-92-367-153 Sequence 15 29 28.2 18 14 US-10-092-367-153 Sequence 15 29 28.2 18 14 US-10-10-23-98 Sequence 15 29 28.2 18 16 US-10-867-460-98 Sequence 15 28.5 27.7 19 14 US-10-186-611-3 Sequence 17 28.5 27.7 19 14 US-10-189-437-118 Sequence 17 28.5 27.7 19 14 US-10-189-437-118 Sequence 18 28.5 27.7 19 US-09-966-955A-35 Sequence 18 27.2 18 14 US-10-092-367-169 Sequence 18 28.2 27.2 18 US-10-092-367-185 Sequence 18 28.2 27.2 18 US-10-092-367-185 Sequence 18 27.2 18 US-10-092-367-185 Sequence 18 27.2 18 US-10-092-367-185 Sequence 18 27.2 US-09-966-955A-35 Sequence 18 27.2 US-	28.2 13 15 US-10-436-715-422 Sequence 42 28.2 17 10 US-09-312-464-22 Sequence 22 28.2 17 10 US-09-312-464-22 Sequence 23 28.2 17 10 US-09-306-955A-23 Sequence 23 28.2 18 14 US-10-901-955 Sequence 23 28.2 18 14 US-10-92-367-137 Sequence 15 28.2 18 14 US-10-92-367-153 Sequence 15 28.2 18 14 US-10-92-367-153 Sequence 15 28.2 18 14 US-10-10-23-98 Sequence 15 28.2 18 16 US-10-867-460-98 Sequence 16 US-10-867-460-98 Sequence 17 19 14 US-10-105-222-118 Sequence 17 19 14 US-10-189-437-115 Sequence 17 17 19 14 US-10-189-437-115 Sequence 17 17 10 US-09-566-955A-35 Sequence 38 27.2 14 US-10-189-437-116 Sequence 38 27.2 18 14 US-10-092-367-169 Sequence 38 27.2 18 14 US-10-092-367-169 Sequence 18 27.2 18 14 US-10-092-367-169 Sequence 18 27.2 18 US-10-93-367-169 Sequence 18 27.2 18 US-10-93-367-169 Sequence 18 27.2 18 US-10-092-367-169 Sequence 18 27.2 US-09-566-955A-35 Sequence 18 27.2 US-09-566-956-956-956-956-956-956-956-956-95	29 28.2 13 15 US 29 28.2 17 10 US 29 28.2 17 10 US 29 28.2 17 110 US 29 28.2 17 110 US 29 28.2 17 110 US 29 28.2 18 14 US 20 28.2 18 14 US 20 28.5 27.7 19 14 US 20 28.5 27.7 19 14 US 20 28.5 27.7 19 US 20 27.2 14 US 20 27.2 14 US 20 27.2 14 US 20 27.2 18 US 20 27.2 18 US 20 27.2 18 US 20 27.2 18 US	Sequence 42 Sequence 23. Sequence 23. Sequence 13. Sequence 13. Sequence 13. Sequence 3. Sequence 3. Sequence 11. Sequence 11. Sequence 11. Sequence 11. Sequence 13. Sequence 13.
8 29 28.2 17 10 US-09-832-464-22 Sequence 22 9 29 28.2 17 17 US-09-66-955A-23 Sequence 23 1 29 28.2 18 14 US-10-092-367-5 Sequence 5, 2 29 28.2 18 14 US-10-092-367-137 Sequence 13 4 29 28.2 18 14 US-10-092-367-153 Sequence 13 5 29 28.2 18 14 US-10-023-367-153 Sequence 13 5 29 28.2 18 14 US-10-023-98 Sequence 13 6 29 28.2 18 16 US-10-134-342 Sequence 34 7 29 28.2 18 16 US-10-186-681-3 Sequence 34 8 28.5 20 14 US-10-105-232-118 Sequence 11 9 28.5 27.7 19 14 US-10-105-232-131 Sequence 13 1 14	29 28.2 17 10 US-09-832-464-22 Sequence 22 28.2 17 17 US-10-901-897-22 Sequence 22 29 28.2 18 17 US-10-901-897-22 Sequence 23 29 28.2 18 14 US-10-092-367-5 Sequence 5, 29 28.2 18 14 US-10-092-367-137 Sequence 13 29 28.2 18 14 US-10-092-367-153 Sequence 13 29 28.2 18 14 US-10-092-367-153 Sequence 13 29 28.2 18 14 US-10-210-023-98 Sequence 14 US-10-210-023-98 Sequence 14 US-10-210-023-98 Sequence 15 28.5 27.7 19 14 US-10-186-681-3 Sequence 17 28.5 27.7 19 14 US-10-105-232-131 Sequence 17 28.5 27.7 19 14 US-10-105-232-131 Sequence 17 28.5 27.7 19 14 US-10-189-437-105 Sequence 17 28.5 27.7 19 14 US-10-189-437-105 Sequence 17 28.5 27.7 19 14 US-10-189-437-18 Sequence 18 28.5 27.7 19 14 US-10-189-437-18 Sequence 18 28.5 27.7 19 US-10-189-437-18 Sequence 18 28.2 27.2 18 14 US-10-189-437-18 Sequence 18 28.7 2 18 14 US-10-092-367-185 Sequence 18	29 28.2 17 10 US-09-832-444-22 Sequence 22 28.2 17 17 US-10-901-897-22 Sequence 22 28.2 18 17 17 US-10-901-897-22 Sequence 22 28.2 18 18 14 US-10-092-367-5 Sequence 23 28.2 18 14 US-10-092-367-137 Sequence 13 29 28.2 18 14 US-10-092-367-137 Sequence 13 29 28.2 18 14 US-10-092-367-153 Sequence 13 28.2 18 14 US-10-10-23-98 Sequence 34 28.2 18 15 US-10-351-334.2 Sequence 34 28.5 27.7 19 14 US-10-186-681-3 Sequence 13 28.5 27.7 19 14 US-10-186-681-3 Sequence 13 28.5 27.7 19 14 US-10-189-437-108 Sequence 13 28.2 27.2 14 US-10-092-367-169 Sequence 13 28.2 27.2 14 US-10-092-367-169 Sequence 18 28.2 27.2 18 14 US-10-092-367-169 Sequence 18 28.2 27.2 18 US-10-092-367-169 Sequence 18	28.2 17 10 US-09-832-444-22 Sequence 22 28.2 18 17 10 US-09-86-955A-23 Sequence 22 28.2 18 18 14 US-10-901-897-25 Sequence 23 28.2 18 14 US-10-902-367-153 Sequence 13 28.2 18 14 US-10-092-367-153 Sequence 15 28.2 18 14 US-10-092-367-153 Sequence 15 28.2 18 14 US-10-092-367-153 Sequence 15 28.2 18 14 US-10-092-367-153 Sequence 34 28.2 18 15 US-10-131-342 Sequence 34 28.2 18 15 US-10-186-681-3 Sequence 37 27.7 19 14 US-10-186-681-3 Sequence 10 27.7 19 14 US-10-189-437-118 Sequence 10 27.7 19 14 US-10-189-437-118 Sequence 10 27.2 14 US-10-189-437-118 Sequence 10 27.2 17 10 US-09-866-955A-35 Sequence 38 27.2 18 14 US-10-092-367-169 Sequence 16 27.2 18 14 US-10-092-367-169 Sequence 18 27.2 18 14 US-10-092-367-169 Sequence 18 27.2 18 US-10-092-367-169 Sequence 18 27.2 US-09-866-955A-35 Sequence 18 27.2 US-09-864-977-185 Sequence 18 27.2 US-09-864-977-185 Sequence 18 27.2 US-09-864-977-185 Sequence 18 27.2 US-09-847A1	29 28.2 17 10 US 29 288.2 17 10 US 29 288.2 18 19 US 29 288.2 18 14 US 28 28.5 27.7 19 14 US 28 27.7 19 14 US 28 27.7 19 US 3 28 27.7 19 US 4 28 27.2 14 US	Sequence 22 Sequence 22 Sequence 25, Sequence 13 Sequence 13 Sequence 38 Sequence 39 Sequence 30 Sequence 11 Sequence 11 Sequence 13 Sequence 13 Sequence 13
9 29 28.2 17 17 US-10-901-897-22 Sequence 23 10 29 28.2 18 14 US-09-966-955A-23 Sequence 23 2 28.2 18 14 US-10-092-367-5 Sequence 13 3 29 28.2 18 14 US-10-092-367-153 Sequence 15 4 29 28.2 18 14 US-10-092-367-153 Sequence 15 5 29 28.2 18 14 US-10-1092-367-153 Sequence 15 6 29 28.2 18 16 US-10-10-21-98 Sequence 34 6 29 28.2 18 16 US-10-166-98 Sequence 39 8 28.5 27.7 19 14 US-10-166-232-118 Sequence 13 9 28.5 27.7 19 14 US-10-105-232-13 Sequence 13 1 28.5 27.7 19 14 US-10-106-232-13 Sequence 13 2 27.7<	29 28.2 17 17 US-10-901-897-22 Sequence 22 28.2 18 9 US-09-966-955A-23 Sequence 23, 28 2 28.2 18 14 US-10-902-367-5 Sequence 23, 28 2 28.2 18 14 US-10-092-367-153 Sequence 13 29 28.2 18 14 US-10-092-367-153 Sequence 13 29 28.2 18 14 US-10-092-367-153 Sequence 15 29 28.2 18 14 US-10-210-023-98 Sequence 15 29 28.2 18 15 US-10-210-023-98 Sequence 34 28.5 27.7 19 14 US-10-166-681-3 Sequence 13 28.5 27.7 19 14 US-10-166-232-118 Sequence 11 28.5 27.7 19 14 US-10-168-232-131 Sequence 10 28.5 27.7 19 14 US-10-189-437-118 Sequence 10 28.5 27.7 19 14 US-10-189-437-118 Sequence 11 28.5 27.2 14 9 US-09-966-955A-35 Sequence 13 28 27.2 14 0 US-09-966-955A-35 Sequence 13 28 27.2 18 14 US-10-092-367-169 Sequence 18 28 27.2 18 14 US-10-092-367-189 Sequence 18 28 27.2 18 14 US-10-092-367-189 Sequence 18	29 28.2 17 17 US-10-901-897-22 Sequence 22 28.2 18 9 US-09-906-955A-23 Sequence 23 28.2 18 14 US-10-092-367-5 Sequence 13 29 28.2 18 14 US-10-092-367-137 Sequence 13 29 28.2 18 14 US-10-092-367-153 Sequence 13 29 28.2 18 14 US-10-092-367-153 Sequence 15 29 28.2 18 14 US-10-210-023-98 Sequence 15 29 28.2 18 15 US-10-310-314-342 Sequence 98 28.2 28.2 18 16 US-10-867-40-98 Sequence 17 US-10-186-681-3 Sequence 17 28.5 27.7 19 14 US-10-186-681-3 Sequence 13 28.5 27.7 19 14 US-10-189-437-118 Sequence 17 28.5 27.7 19 14 US-10-189-437-118 Sequence 18 28.5 27.7 19 14 US-10-189-437-118 Sequence 38 27.2 14 9 US-09-966-955A-35 Sequence 38 27.2 17 10 US-09-966-955A-35 Sequence 38 27.2 18 14 US-10-092-367-169 Sequence 18 28 27.2 18 14 US-10-092-367-169 Sequence 18 28 27.2 18 US-09-966-955A-35 Sequence 18 27.2 18 US-10-092-367-185 Sequence 18 28 27.2 18 US-10-092-367-185 Sequence 18 28 27.2 18 US-10-092-367-185 Sequence 18 27.2 18 US-10-092-367-185 Sequence 18 27.2 US-09-966-958-367-185 Sequence 18 27.2 US-09-966-968-367-185 Sequence 18 27.2 US-09-966-968-367-185 Sequence 18 27.2 US-09-966-968-367-185 Sequen	28.2 17 17 US-10-901-897-22 Sequence 22 28.2 18 9 US-09-906-955A-23 Sequence 23, 28.2 18 14 US-10-092-367-5 Sequence 13, 28.2 18 14 US-10-092-367-153 Sequence 13, 28.2 18 14 US-10-092-367-153 Sequence 13, 28.2 18 14 US-10-092-367-153 Sequence 15, 28.2 18 14 US-10-092-367-153 Sequence 34, 28.2 18 15 US-10-351-334-342 Sequence 34, 27.7 19 14 US-10-105-222-131 Sequence 13, 27.7 19 14 US-10-105-223-18 Sequence 33, 27.2 18 14 US-10-92-367-169 Sequence 35, 27.2 18 14 US-10-92-367-169 Sequence 14 US-10-092-367-169 Sequence 15 Sequence 16 US-10-092-367-185 Sequence 18 ALIGNMENTS	29 28.2 17 17 US 29 28.2 28.2 17 17 US 29 28.2 18 14 US 29 28.2 18 15 US 28.5 27.7 19 14 US 28.5 27.7 19 US 28.5 27.7 18 U	Sequence 23, Sequence 23, Sequence 13, Sequence 15 Sequence 18 Sequence 18 Sequence 11 Sequence 11 Sequence 11 Sequence 11 Sequence 11 Sequence 12 Sequence 15 Sequence 25, Sequence 25, Sequence 23, Sequence 24, Se
29 28.2 18 9 US-09-966-955A-23 Sequence 23, 29 28.2 18 14 US-10-092-367-5 Sequence 23, 29 28.2 18 14 US-10-092-367-15 Sequence 5, 29 28.2 18 14 US-10-092-367-153 Sequence 15 29 28.2 18 14 US-10-092-367-153 Sequence 15 2 29 28.2 18 14 US-10-092-367-153 Sequence 15 2 29 28.2 18 15 US-10-10-213-3442 Sequence 16 37 29 28.2 18 15 US-10-186-681-3 Sequence 34 28.5 27.7 19 14 US-10-186-681-3 Sequence 17 28.5 27.7 19 14 US-10-189-437-105 Sequence 18 28.5 27.2 17 10 US-09-366-955A-35 Sequence 18 28.5 27.2 17 US-09-36-956-955A-35 Sequence 18 28.5 27.2 18 14 US-10-092-367-185 Sequence 18 28.5 27.2 18 14 US-10-092-367-185 Sequence 18	29 28.2 18 9 US-09-966-955A-23 Sequence 23, 29 28.2 18 14 US-10-092-367-5 Sequence 23, 29 28.2 18 14 US-10-092-367-153 Sequence 5, 29 28.2 18 14 US-10-092-367-153 Sequence 5, 29 28.2 18 14 US-10-023-398 Sequence 15 29 28.2 18 14 US-10-023-98 Sequence 16 29 28.2 18 15 US-10-351-334-342 Sequence 98 28.5 27.7 19 14 US-10-186-681-3 Sequence 17 28.5 27.7 19 14 US-10-105-232-118 Sequence 17 28.5 27.7 19 14 US-10-105-232-118 Sequence 17 28.5 27.7 19 14 US-10-105-232-118 Sequence 17 28 27.2 19 14 US-10-189-437-105 Sequence 17 28 27.2 19 14 US-10-189-437-116 Sequence 17 28 27.2 18 14 US-10-189-33-38 Sequence 35, 28 27.2 18 14 US-10-32-367-169 Sequence 18 28 27.2 18 14 US-10-92-367-169 Sequence 18	29 28.2 18 9 US-09-966-955A-23 Sequence 23, 28.2 18 14 US-10-092-36.5 Sequence 5. 29 28.2 18 14 US-10-092-36.5 Sequence 5. 29 28.2 18 14 US-10-092-367-137 Sequence 15 29 28.2 18 14 US-10-092-367-153 Sequence 15 29 28.2 18 14 US-10-032-98 Sequence 15 29 28.2 18 16 US-10-867-460-98 Sequence 98 28.5 27.7 19 14 US-10-186-681.3 Sequence 13 28.5 27.7 19 14 US-10-186-681.3 Sequence 10 28.5 27.7 19 14 US-10-189-437-118 Sequence 11 28.5 27.7 19 14 US-10-189-437-118 Sequence 11 28.5 27.7 19 14 US-10-189-437-118 Sequence 11 28.5 27.7 19 14 US-10-93-367-169 Sequence 18 27.2 17 10 US-09-966-955A-35 Sequence 18 27.2 18 14 US-10-092-367-169 Sequence 18 28.2 27.2 18 US-09-966-955A-35 Sequence 18 27.2 18 US-09-966-955A-35 Sequence 18 27.2 18 US-10-092-367-185 Sequence 18	28.2 18 9 US-09-966-95A-23 Sequence 23, 28.2 18 14 US-10-092-367-15 Sequence 5, 28.2 18 14 US-10-092-367-137 Sequence 15, 28.2 18 14 US-10-092-367-137 Sequence 15, 28.2 18 14 US-10-092-367-153 Sequence 15, 28.2 18 14 US-10-10-029-98 Sequence 34, 28.2 18 15 US-10-351-344-342 Sequence 34, 28.2 18 16 US-10-867-460-98 Sequence 34, 27.7 19 14 US-10-186-681-3 Sequence 11, 27.7 19 14 US-10-189-437-118 Sequence 11, 27.7 19 14 US-10-189-437-118 Sequence 12, 27.7 19 14 US-10-189-437-118 Sequence 11, 27.7 19 14 US-10-189-437-118 Sequence 11, 27.2 14 9 US-09-966-955A-35 Sequence 35, 27.2 18 14 US-10-092-367-169 Sequence 16, 27.2 18 14 US-10-092-367-185 Sequence 16, 27.2 18 14 US-10-092-367-185 Sequence 16, 27.2 18 US-10-092-367-185 Sequence 18, 27.2 18 US-10-092-367-185 Sequence 18, 27.2 US-09-966-955A-35 Sequence 18, 27.2 US-09-966-955A-35 Sequence 18, 27.2 US-09-966-955A-35 Sequence 18, 27.2 US-09-966-955A-35 Sequence 18, 27.2 US-09-966-956A-367-185 Sequence 18, 27.2 US-09-966-95A-367-185 Sequence 18, 27.2 US-09-966-96-96-96-96-96-96-96-96-96-96-96-9	29 28.2 18 9 US- 29 28.2 18 14 US 28 28.5 27.7 19 14 US 28 27.7 19 14 US 28 27.7 19 US 3 28 27.7 19 US 4 28 27.2 14 9 US 5 28 27.7 19 US	Sequence 23, Sequence 5, Sequence 15 Sequence 18 Sequence 3, Sequence 3, Sequence 11 Sequence 11 Sequence 10 Sequence 10 Sequence 10 Sequence 10 Sequence 10
29 28.2 18 14 US-10-092-367-5 Sequence 5, 29 28.2 18 14 US-10-092-367-137 Sequence 13 29 28.2 18 14 US-10-092-367-137 Sequence 13 2 29 28.2 18 14 US-10-092-367-153 Sequence 13 2 29 28.2 18 14 US-10-021-98 Sequence 19 2 28.2 18 15 US-10-210-023-98 Sequence 34 2 29 28.2 18 15 US-10-186-681-3 Sequence 34 2 28.5 27.7 19 14 US-10-186-681-3 Sequence 11 28.5 27.7 19 14 US-10-105-232-118 Sequence 10 2 28.5 27.7 19 14 US-10-105-232-131 Sequence 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	29 28.2 18 14 US-10-092-367-5 Sequence 5, 29 28.2 18 14 US-10-092-367-137 Sequence 13 29 28.2 18 14 US-10-092-367-137 Sequence 13 2 29 28.2 18 14 US-10-092-367-153 Sequence 13 2 29 28.2 18 14 US-10-210-023-99 Sequence 34 2 29 28.2 18 15 US-10-351-344-342 Sequence 34 2 29 28.2 18 15 US-10-186-681-3 Sequence 3 2 2 27.7 19 14 US-10-186-681-3 Sequence 10 2 28.5 27.7 19 14 US-10-105-232-131 Sequence 10 2 28.5 27.7 19 14 US-10-189-437-105 Sequence 11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	29 28.2 18 14 US-10-092-357-5 Sequence 5, 29 28.2 18 14 US-10-092-357-137 Sequence 13 29 28.2 18 14 US-10-092-357-137 Sequence 13 29 28.2 18 14 US-10-092-357-137 Sequence 13 29 28.2 18 14 US-10-210-023-98 Sequence 34 28.2 28.2 18 15 US-10-351-334.342 Sequence 34 28.5 27.7 19 14 US-10-186-681-3 Sequence 13 28.5 27.7 19 14 US-10-186-681-3 Sequence 13 28.5 27.7 19 14 US-10-189-437-108 Sequence 13 28.5 27.7 19 14 US-10-189-437-118 Sequence 13 28.5 27.7 19 US-09-86-955A-35 Sequence 13 28.2 27.2 18 14 US-10-092-367-169 Sequence 18 28.2 27.2 18 US-10-092-367-185 Sequence 18 28.2 27.2 18 US-10-092-367-185 Sequence 18	28.2 18 14 US-10-092-367-5 Sequence 5, 28.2 18 14 US-10-092-367-137 Sequence 13 28.2 18 14 US-10-092-367-137 Sequence 13 28.2 18 14 US-10-092-367-153 Sequence 13 28.2 18 15 US-10-210-023-98 Sequence 34 28.2 18 15 US-10-351-344 Sequence 34 28.2 18 16 US-10-186-681-3 Sequence 34 27.7 19 14 US-10-186-681-3 Sequence 10 27.7 19 14 US-10-189-437-118 Sequence 10 27.7 19 14 US-10-189-437-118 Sequence 10 27.7 19 14 US-10-189-437-118 Sequence 10 27.2 17 10 US-09-966-955A-35 Sequence 38 27.2 18 14 US-10-092-367-169 Sequence 16 27.2 18 14 US-10-092-367-169 Sequence 16 27.2 18 14 US-10-092-367-185 Sequence 16 27.2 18 US-10-092-367-185 Sequence 18 27.2 US-09-966-958A-35 Sequence 18 27.2 US-09-968-433-38 Sequence 18 27.2 US-0	29 28.2 18 14 US 29 28.2 18 15 US 7 28 28.2 18 15 US 8 28.5 27.7 19 14 US 1 28.5 27.7 19 14 US 2 28.5 27.7 19 US 2 28.5 27.7 19 US 3 28.5 27.7 19 US 4 28.5 27.7 19 US 2 28.5 27.7 19 US 3 28.5 27.7 19 US 4 28.5 27.7 19 US 5 28.5 27.7 19 US 6 27.2 14 US	Sequence 5, Sequence 13 Sequence 18 Sequence 34 Sequence 3, Sequence 11 Sequence 11 Sequence 11 Sequence 12 Sequence 13 Sequence 35, Se
2 29 28.2 18 14 US-10-092-367-137 Sequence 13 29 28.2 18 14 US-10-092-367-153 Sequence 13 29 28.2 18 14 US-10-092-367-153 Sequence 15 29 28.2 18 14 US-10-210-023-98 Sequence 34 29 28.2 18 15 US-10-31-314-342 Sequence 34 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-13 Sequence 11 28.5 27.7 19 14 US-10-105-232-13 Sequence 11 28.5 27.7 19 14 US-10-105-332-33 Sequence 13 28 27.2 14 9 US-09-966-958A-35 Sequence 35, 28 27.2 14 10 US-09-966-958A-35 Sequence 35, 28 27.2 18 14 US-10-092-367-189 Sequence 18 28 27.2 18 14 US-10-092-367-189 Sequence 18	29 28.2 18 14 US-10-092-367-137 Sequence 13 29 28.2 18 14 US-10-092-367-153 Sequence 13 29 28.2 18 14 US-10-092-367-153 Sequence 15 29 28.2 18 14 US-10-210-023-98 Sequence 34 29 28.2 18 15 US-10-351-334-342 Sequence 34 28.5 27.7 19 14 US-10-166-681-3 Sequence 11 28.5 27.7 19 14 US-10-165-232-118 Sequence 11 28.5 27.7 19 14 US-10-168-98 Sequence 11 28.5 27.7 19 14 US-10-189-437-116 Sequence 10 28.5 27.7 19 14 US-10-189-437-118 Sequence 10 28.5 27.2 14 9 US-09-966-955A-35 Sequence 35, 28 27.2 14 US-09-966-955A-35 Sequence 35, 28 27.2 18 14 US-10-092-367-189 Sequence 18 28 27.2 18 14 US-10-092-367-185 Sequence 18	29 28.2 18 14 US-10-092-367-137 Sequence 13 29 28.2 18 14 US-10-092-367-153 Sequence 15 29 28.2 18 14 US-10-092-367-153 Sequence 15 29 28.2 18 14 US-10-210-003-98 Sequence 34 29 28.2 18 15 US-10-867-460-98 Sequence 34 28.2 27.7 19 14 US-10-186-681-3 Sequence 13 28.5 27.7 19 14 US-10-186-681-3 Sequence 13 28.5 27.7 19 14 US-10-186-37-118 Sequence 13 28.5 27.7 19 14 US-10-189-437-116 Sequence 13 28.5 27.7 19 14 US-10-189-437-116 Sequence 13 28.5 27.7 19 14 US-10-189-437-118 Sequence 13 28.5 27.7 19 14 US-10-189-437-118 Sequence 13 28.5 27.2 14 9 US-09-966-955A-35 Sequence 14 US-10-092-367-18 Sequence 15 28 27.2 18 14 US-10-092-367-185 Sequence 16 28 27.2 18 14 US-10-092-367-185 Sequence 18 27.2 18 US-10-092-367-185 Sequence 18 27.2 US	28.2 18 14 US-10-092-367-137 Sequence 13 28.2 18 14 US-10-092-367-153 Sequence 15 28.2 18 14 US-10-210-033-98 Sequence 15 28.2 18 15 US-10-310-314-342 Sequence 34 28.2 18 16 US-10-867-460-98 Sequence 34 28.2 20 14 US-10-186-681-3 Sequence 37 27.7 19 14 US-10-186-681-3 Sequence 17 27.7 19 14 US-10-189-437-105 Sequence 17 27.7 19 14 US-10-189-437-105 Sequence 17 27.2 19 14 US-10-189-437-118 Sequence 17 27.2 19 US-09-966-955A-35 Sequence 35, 27.2 18 14 US-10-092-367-169 Sequence 18 27.2 18 14 US-10-092-367-169 Sequence 18 27.2 18 US-10-092-367-185 Sequence 18 27.2 US-09-966-955A-35 Sequence 18 27.2 US-09-966-955A-35 Sequence 18 27.2 US-09-966-955A-35 Sequence 18 27.2 US-09-966-955A-35 Sequence 18 27.3 US-09-966-955A-35 Sequence 18 27.4 US-10-092-367-185 Sequence 18 27.5 US-09-966-955A-36 Sequence 18 27.7 US-09-966-955A-36 Sequence 18 27.8 US-00-966-955A-36 Sequence 18 27.9 US-00-966-956-956-956-956-956-956-956-956-956	29 28.2 18 14 US 29 28.2 18 14 US 5 29 28.2 18 14 US 5 29 28.2 18 15 US 6 29 28.2 18 15 US 6 29 28.2 18 16 US 7 29 28.2 20 14 US 9 28.5 27.7 19 14 US 2 28.5 27.7 19 14 US 2 28.5 27.7 19 US 3 28.5 27.2 17 US 4 18 14 US	Sequence 13 Sequence 15 Sequence 34 Sequence 39 Sequence 11 Sequence 11 Sequence 11 Sequence 11 Sequence 12 Sequence 13 Sequence 13
29 28.2 18 14 US-10-092-367-153 Sequence 15 Sequence 15 29 28.2 18 14 US-10-213-98 Sequence 98 28.2 18 15 US-10-210-023-98 Sequence 98 28.2 18 15 US-10-3134-342 Sequence 98 28.5 2 20 14 US-10-186-681-3 Sequence 34 28.5 27.7 19 14 US-10-186-681-3 Sequence 11 28.5 27.7 19 14 US-10-186-532-118 Sequence 10 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 28.5 27.7 19 14 US-10-189-437-105 Sequence 11 28.5 27.7 19 14 US-10-189-437-118 Sequence 11 28.5 27.7 19 14 US-10-189-437-118 Sequence 11 28.5 27.2 17 10 US-09-966-958.3 Sequence 11 28.5 27.2 17 US-09-986-958.3 Sequence 11 28 27.2 18 14 US-10-092-367-189 Sequence 16 Sequence 16 28 27.2 18 14 US-10-092-367-185 Sequence 18	29 28.2 18 14 US-10-092-367-153 Sequence 15 29 28.2 18 14 US-10-032-364 Sequence 98 29 28.2 18 14 US-10-210-023-98 Sequence 98 29 28.2 18 15 US-10-351-314-342 Sequence 98 28.2 18 16 US-10-867-460-98 Sequence 99 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28 27.2 19 14 US-10-105-232-13 Sequence 11 28 27.2 19 14 US-10-198-437-105 Sequence 13 28 27.2 19 10 US-09-966-955A-35 Sequence 35, 28 27.2 18 14 US-10-198-33-38 Sequence 35, 28 27.2 18 14 US-10-092-367-169 Sequence 18 28 27.2 18 14 US-10-092-367-169 Sequence 18	29 28.2 18 14 US-10-092-367-153 Sequence 15 29 28.2 18 14 US-10-032-98 Sequence 98 28.2 18 14 US-10-032-998 Sequence 98 29 28.2 18 15 US-10-351-34-342 Sequence 98 29 28.2 18 16 US-10-867-460-99 Sequence 98 28.5 27.7 19 14 US-10-186-681-3 Sequence 13 28.5 27.7 19 14 US-10-189-437-118 Sequence 11 28.5 27.7 19 14 US-10-986-955A-35 Sequence 11 28.2 27.2 17 10 US-09-966-955A-35 Sequence 38 27.2 18 14 US-10-092-367-169 Sequence 18 28 27.2 18 14 US-10-092-367-185 Sequence 18 28 27.2 18 US-09-966-958A-35 Sequence 18 28 27.2 18 US-09-968-968-988-988-988-988-988-988-988-98	28.2 18 14 US-10-092-357-153 Sequence 15 28.2 18 14 US-10-210-022-98 Sequence 98 28.2 18 14 US-10-210-929 Sequence 98 28.2 18 15 US-10-351-314-342 Sequence 98 28.2 18 16 US-10-867-460-98 Sequence 34 28.2 20 14 US-10-186-681-3 Sequence 13 27.7 19 14 US-10-189-437-118 Sequence 13 27.7 19 14 US-10-189-437-118 Sequence 13 27.7 19 14 US-10-189-437-118 Sequence 15 27.2 14 9 US-09-966-955A-35 Sequence 35, 27.2 18 14 US-10-189-437-118 Sequence 35, 27.2 18 14 US-10-092-367-169 Sequence 16 27.2 18 14 US-10-092-367-185 Sequence 16 27.2 18 14 US-10-092-367-185 Sequence 16 27.2 18 US-10-092-367-185 Sequence 16 Sequence 16 27.2 US-09-966-955A-35 Sequence 16 27.2 US-09-966-955A-35 Sequence 18 27.2 US-09-966-956A-367-185 Sequence 18 27.2 US-09-96-96-96-96-96-96-96-96-96-96-96-96-96	29 28.2 18 14 US 29 28.2 18 16 US 28 28.5 27.7 19 14 US 28 5 27.7 19 14 US 28 5 27.7 19 14 US 28 5 27.7 19 US 3 28 5 27.7 19 US 4 28 27.2 14 9 US 5 28 27.2 14 10 US	Sequence 15 Sequence 98 Sequence 98 Sequence 11 Sequence 10 Sequence 10 Sequence 10 Sequence 10 Sequence 18
4 29 28.2 18 14 US-10-210-023-98 Sequence 98 5 29 28.2 18 15 US-10-351-34-34 Sequence 34 7 29 28.2 14 US-10-86-681-3 Sequence 34 8 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 9 28.5 27.7 19 14 US-10-105-232-118 Sequence 13 0 28.5 27.7 19 14 US-10-105-232-118 Sequence 13 1 28.5 27.7 19 14 US-10-189-437-105 Sequence 13 2 28 27.2 14 US-10-189-437-118 Sequence 11 2 28 27.2 14 US-09-86-955A-35 Sequence 12 3 28 27.2 17 10 US-09-86-955A-35 Sequence 36 4 28 27.2 18 14 US-10-092-367-169 Sequence 18 5 27.2 18 <t< td=""><td>29 28.2 18 14 US-10-210-023-98 Sequence 98 28.2 18 15 US-10-351-334-342 Sequence 34 29 28.2 18 15 US-10-86-681-3 Sequence 34 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-131 Sequence 11 28.5 27.7 19 14 US-10-189-437-105 Sequence 11 28.5 27.2 17 10 US-09-966-955A-35 Sequence 13 28 27.2 17 10 US-09-367-367-35 Sequence 15 28 27.2 18 14 US-10-092-367-185 Sequence 16 28 27.2 18 14 US-10-092-367-185 Sequence 18</td><td>29 28.2 18 14 US-10-023-98 Sequence 98 28.2 18 15 US-10-51-334-342 Sequence 34 29 28.2 18 15 US-10-851-334-342 Sequence 34 28.2 28.2 28.2 20 14 US-10-867-460-98 Sequence 3, 28.5 27.7 19 14 US-10-105-223-118 Sequence 13 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 28.5 27.7 19 14 US-10-189-437-118 Sequence 10 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 28.5 27.7 19 14 US-10-189-437-118 Sequence 11 28.2 27.2 17 10 US-09-966-955A-35 Sequence 135, 28 27.2 18 14 US-10-092-367-169 Sequence 18 28 27.2 18 14 US-10-092-367-185 Sequence 18 28 27.2 18 US-10-092-367-185 Sequence 18</td><td>28.2 18 14 US-10-023-98 Sequence 98 Sequence 34 28.2 18 15 US-10-31-34-342 Sequence 34 28.2 18 16 US-10-867-466-98 Sequence 34 27.7 19 14 US-10-186-681-3 Sequence 13 27.7 19 14 US-10-189-437-118 Sequence 10 27.2 17 10 US-09-966-955A-35 Sequence 38 27.2 18 14 US-10-92-367-169 Sequence 38 27.2 18 14 US-10-092-367-169 Sequence 16 27.2 18 US-10-092-367-185 Sequence 18 27.2 US-09-966-955A-35 Sequence 18 27.2 US-09-968-478-185 Sequence 18 27.2 US-09-968-4</td><td>29 28.2 18 14 US 29 28.2 18 15 US 29 28.2 18 15 US 29 28.2 18 15 US 28 28.5 27.7 19 14 US 28.5 27.7 19 US 3 27.2 19 US 3 27.2 19 US 4 28 27.2 19 US</td><td>Sequence 98 Sequence 34 Sequence 13 Sequence 13 Sequence 13 Sequence 13 Sequence 35 Sequence 35</td></t<>	29 28.2 18 14 US-10-210-023-98 Sequence 98 28.2 18 15 US-10-351-334-342 Sequence 34 29 28.2 18 15 US-10-86-681-3 Sequence 34 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-131 Sequence 11 28.5 27.7 19 14 US-10-189-437-105 Sequence 11 28.5 27.2 17 10 US-09-966-955A-35 Sequence 13 28 27.2 17 10 US-09-367-367-35 Sequence 15 28 27.2 18 14 US-10-092-367-185 Sequence 16 28 27.2 18 14 US-10-092-367-185 Sequence 18	29 28.2 18 14 US-10-023-98 Sequence 98 28.2 18 15 US-10-51-334-342 Sequence 34 29 28.2 18 15 US-10-851-334-342 Sequence 34 28.2 28.2 28.2 20 14 US-10-867-460-98 Sequence 3, 28.5 27.7 19 14 US-10-105-223-118 Sequence 13 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 28.5 27.7 19 14 US-10-189-437-118 Sequence 10 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 28.5 27.7 19 14 US-10-189-437-118 Sequence 11 28.2 27.2 17 10 US-09-966-955A-35 Sequence 135, 28 27.2 18 14 US-10-092-367-169 Sequence 18 28 27.2 18 14 US-10-092-367-185 Sequence 18 28 27.2 18 US-10-092-367-185 Sequence 18	28.2 18 14 US-10-023-98 Sequence 98 Sequence 34 28.2 18 15 US-10-31-34-342 Sequence 34 28.2 18 16 US-10-867-466-98 Sequence 34 27.7 19 14 US-10-186-681-3 Sequence 13 27.7 19 14 US-10-189-437-118 Sequence 10 27.2 17 10 US-09-966-955A-35 Sequence 38 27.2 18 14 US-10-92-367-169 Sequence 38 27.2 18 14 US-10-092-367-169 Sequence 16 27.2 18 US-10-092-367-185 Sequence 18 27.2 US-09-966-955A-35 Sequence 18 27.2 US-09-968-478-185 Sequence 18 27.2 US-09-968-4	29 28.2 18 14 US 29 28.2 18 15 US 29 28.2 18 15 US 29 28.2 18 15 US 28 28.5 27.7 19 14 US 28.5 27.7 19 US 3 27.2 19 US 3 27.2 19 US 4 28 27.2 19 US	Sequence 98 Sequence 34 Sequence 13 Sequence 13 Sequence 13 Sequence 13 Sequence 35 Sequence 35
29 28.2 18 15 US-10-351-334-342 Sequence 34 (2.2) 2 28.2 18 16 US-10-166-098 Sequence 98 (2.2) 2 28.2 2 14 US-10-166-631-3 Sequence 11 (2.2) 2 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-13 Sequence 11 28.5 27.7 19 14 US-10-199-437-105 Sequence 10 28.5 27.7 19 14 US-10-199-437-105 Sequence 10 28.5 27.7 19 14 US-10-199-437-118 Sequence 10 28.2 27.2 14 9 US-09-966-955A-35 Sequence 35, 28 27.2 17 10 US-09-966-955A-35 Sequence 35, 28 27.2 18 14 US-10-092-367-169 Sequence 18 28 27.2 18 14 US-10-092-367-185 Sequence 18	29 28.2 18 15 US-10-351-334-342 Sequence 34 Captain Sequence 35 Captain Sequence 37 Captain Sequence 37 Captain Captai	29 28.2 18 15 US-10-351-334-342 Sequence 34 29 28.2 18 16 US-10-867-466.98 Sequence 34 28.2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	28.2 18 15 US-10-351-334-342 Sequence 34 28.2 18 16 US-10-867-466.98 Sequence 98 28.2 2 0 14 US-10-186-661.3 Sequence 98 27.7 19 14 US-10-105-232-118 Sequence 11 27.7 19 14 US-10-105-232-131 Sequence 10 27.7 19 14 US-10-189-437-105 Sequence 10 27.7 19 14 US-10-189-437-105 Sequence 10 27.2 14 9 US-09-966-955A-35 Sequence 35, 27.2 18 14 US-10-092-367-169 Sequence 18 27.2 18 14 US-10-092-367-169 Sequence 18 27.2 18 14 US-10-092-367-169 Sequence 18 27.2 18 US-10-092-367-169 Sequence 18 27.2 US-10-092-367-10-0	29 28.2 18 15 US 29 28.2 18 16 US 29 28.2 20 14 US 28.5 27.7 19 14 US 29 27.2 17 US 30 27.2 19 US 4 28 27.2 17 US 5 28 27.2 18 US 6 US 6 US 7 US 8 27.2 18 US 8 27.2 18 US 9 US 9 US 10 US 11 US 12 US 13 US 14 US 16 US 17 US 18	8 Sequence 34 Sequence 98 Sequence 3, Sequence 13 Sequence 13 Sequence 10 Sequence 10 Sequence 10 Sequence 11 Sequence 35, Sequence 35,
29 28.2 18 16 US-10-867-460-98 Sequence 98 28.2 2 0 14 US-10-186-681-3 Sequence 3. 29 28.5 27.7 19 14 US-10-105-232-118 Sequence 13. 28.5 27.7 19 14 US-10-105-232-131 Sequence 11. 28.5 27.7 19 14 US-10-1089-437-105 Sequence 10. 28.5 27.7 19 14 US-10-189-437-118 Sequence 10. 28.5 27.7 19 14 US-10-189-437-118 Sequence 10. 28 27.2 17 10 US-09-966-955A-35 Sequence 35. 32 28 27.2 17 10 US-09-96-955A-35 Sequence 35. 34 28 27.2 18 14 US-10-092-367-169 Sequence 16. 35 27.2 18 US-10-092-367-185 Sequence 16. 36 27.2 18 US-10-092-367-185 Sequence 18. 37 28 27.2 18 US-10-092-367-185 Sequence 18. 38 27.2 18 US-10-092-367-18 US-10-092-367-185 SEQUENCE 18. 38 27.2 18 US-10-092-367-185 SEQUENCE 18. 38 27.2 18 US-10-092-367-185 SEQUENCE 18. 38 27.	29 28.2 18 16 US-10-867-460-98 Sequence 98 28.5 27.7 19 14 US-10-186-681.3 Sequence 3, 28.5 27.7 19 14 US-10-105-232-118 Sequence 13 28.5 27.7 19 14 US-10-105-232-131 Sequence 13 28.5 27.7 19 14 US-10-105-237-105 Sequence 13 28 27.2 19 14 US-10-189-437-105 Sequence 10 28 27.2 17 19 US-09-966-955A-35 Sequence 35, 28 27.2 18 14 US-10-9836-437-38 Sequence 35, 28 27.2 18 14 US-10-092-367-185 Sequence 18 28 27.2 18 14 US-10-092-367-185 Sequence 18	29 28.2 18 16 US-10-867-460-98 Sequence 98 28.2 20 14 US-10-186-681-3 Sequence 3, 28.5 27.7 19 14 US-10-186-231-18 Sequence 13 28.5 27.7 19 14 US-10-105-232-13 Sequence 13 28.5 27.7 19 14 US-10-189-437-105 Sequence 13 28.5 27.7 19 14 US-10-189-437-118 Sequence 10 28.5 27.7 19 14 US-10-189-437-118 Sequence 10 28.5 27.2 14 9 US-09-966-955A-35 Sequence 35 28 27.2 17 10 US-09-966-955A-35 Sequence 38 27.2 18 14 US-10-092-367-169 Sequence 16 28 27.2 18 14 US-10-092-367-185 Sequence 18 28 27.2 18 US-09-966-955A-35 Sequence 18 28 27.2 18 US-10-092-367-185 Sequence 18 27.2 US-09-966-968-968-968-968-968-968-968-968-96	28.2 18 16 US-10-867-460-98 Sequence 98 28.2 20 14 US-10-186-681-3 Sequence 3, 27.7 19 14 US-10-105-232-118 Sequence 13 27.7 19 14 US-10-105-232-131 Sequence 13 27.7 19 14 US-10-105-232-131 Sequence 13 27.7 19 14 US-10-189-477-116 Sequence 10 27.2 14 9 US-09-966-955A-35 Sequence 35, 27.2 17 10 US-09-966-955A-35 Sequence 35, 27.2 18 14 US-10-092-367-169 Sequence 16 27.2 18 14 US-10-092-367-169 Sequence 16 27.2 18 14 US-10-092-367-169 Sequence 16 27.2 18 14 US-10-092-367-185 Sequence 18 27.2 18 US-10-092-367-185 Sequence 18 27.2 US-10-09	29 28.2 18 16 US 29 28.2 2 14 US 28.5 27.7 19 14 US 0 28.5 27.7 19 14 US 0 28.5 27.7 19 14 US 2 28.5 27.7 19 14 US 2 28.5 27.7 19 14 US 2 28 27.2 14 9 US 4 28 27.2 17 10 US 5 28 27.2 18 14 US	Sequence 98 Sequence 3, Sequence 13 Sequence 11 Sequence 11 Sequence 10 Sequence 11 Sequence 12 Sequence 35, Sequence 3
29 28.2 20 14 US-10-186-681-3 Sequence 3, 28.5 27,7 19 14 US-10-105-232-118 Sequence 11 28.5 27,7 19 14 US-10-105-232-131 Sequence 10 28.5 27,7 19 14 US-10-105-232-131 Sequence 10 28.5 27,7 19 14 US-10-189-437-105 Sequence 10 28.5 27,7 19 14 US-10-189-437-118 Sequence 10 28.5 27,2 14 9 US-09-966-955A-35 Sequence 35, 28 27,2 17 10 US-09-986-955A-35 Sequence 15 28 27,2 18 14 US-10-092-367-189 Sequence 16 27,2 18 14 US-10-092-367-185 Sequence 18	29 28.2 20 14 US-10-186-681-3 Sequence 3, 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 28.5 27.7 19 14 US-10-189-437-118 Sequence 10 28.5 27.2 14 9 US-09-966-958A-35 Sequence 35, 28 27.2 17 10 US-09-966-958A-35 Sequence 15 28 27.2 18 14 US-10-092-367-169 Sequence 16 28 27.2 18 14 US-10-092-367-185 Sequence 18 ALIGNMENTS	29 28.2 20 14 US-10-186-681-3 Sequence 3, 28.5 27.7 19 14 US-10-165-223-118 Sequence 11 28.5 27.7 19 14 US-10-105-223-118 Sequence 11 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 28.5 27.7 19 14 US-10-189-437-118 Sequence 10 28.5 27.7 19 14 US-10-189-437-118 Sequence 10 28.5 27.2 14 9 US-09-966-955A-35 Sequence 38 27.2 17 10 US-09-96-958-433-38 Sequence 38 27.2 18 14 US-10-092-367-169 Sequence 16 28 27.2 18 US-10-092-367-185 Sequence 18	28.2 20 14 US-10-186-661-3 Sequence 3, 27.7 19 14 US-10-105-232-118 Sequence 11 27.7 19 14 US-10-105-232-131 Sequence 13 27.7 19 14 US-10-189-437-105 Sequence 10 27.7 19 14 US-10-189-437-118 Sequence 10 27.2 14 9 US-09-966-955A-35 Sequence 38 27.2 17 10 US-09-966-955A-35 Sequence 38 27.2 18 14 US-10-092-367-169 Sequence 16 27.2 18 14 US-10-092-367-169 Sequence 16 27.2 18 14 US-10-092-367-185 Sequence 19 Sequence 16 27.2 18 US-09-968-968-968-968-968-968-968-968-968-96	29 28.2 20 14 US 8 28.5 27.7 19 14 US 0 28.5 27.7 19 14 US 1 28.5 27.7 19 14 US 1 28.5 27.7 19 14 US 2 27.2 19 14 US 3 27.2 19 14 US 3 28 27.2 19 10 US 4 28 27.2 18 14 US	Sequence 3, Sequence 118 Sequence 113 Sequence 10 Sequence 10 Sequence 10 Sequence 118 Sequence 35, Sequence
8 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-131 Sequence 13 Sequence 13 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 28.5 27.7 19 14 US-10-189-437-118 Sequence 10 2 2 2 27.7 19 14 US-10-189-437-118 Sequence 11 2 2 2 27.2 17 10 US-09-966-955A-35 Sequence 35, 28 27.2 17 10 US-09-966-955A-35 Sequence 36 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-131 Sequence 13 28.5 27.7 19 14 US-10-108-437-105 Sequence 10 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 28.5 27.7 19 14 US-10-189-437-118 Sequence 11 28.5 27.2 17 10 US-09-96-955A-35 Sequence 11 28 27.2 17 10 US-09-96-955A-35 Sequence 35, 28 27.2 18 14 US-10-092-367-185 Sequence 18 28 27.2 18 14 US-10-092-367-185 Sequence 18 ALIGNMENTS	28.5 27.7 19 14 US-10-105-232-118 Sequence 11 28.5 27.7 19 14 US-10-105-232-131 Sequence 13 28.5 27.7 19 14 US-10-189-437-105 Sequence 13 28.5 27.7 19 14 US-10-189-437-118 Sequence 13 28.5 27.7 19 14 US-10-189-437-118 Sequence 11 28 27.2 17 10 US-09-966-955A-35 Sequence 35, 28 27.2 17 US-10-96-955A-35 Sequence 35, 28 27.2 18 14 US-10-092-367-169 Sequence 16 28 27.2 18 14 US-10-092-367-185 Sequence 16 Sequence 16 Sequence 18 28 27.2 18 14 US-10-092-367-185 Sequence 18 28 27.2 18 US-10-092-367-185 Sequence 18 28 27.2 US-10	27.7 19 14 US-10-105-232-118 Sequence 11 27.7 19 14 US-10-105-232-131 Sequence 13 27.7 19 14 US-10-105-232-131 Sequence 13 27.7 19 14 US-10-189-437-118 Sequence 10 27.7 19 14 US-10-189-437-118 Sequence 11 27.2 14 9 US-09-966-955A-35 Sequence 35, 27.2 18 14 US-10-092-367-169 Sequence 35, 27.2 18 14 US-10-092-367-165 Sequence 18 27.2 18 14 US-10-092-367-185 Sequence 18 27.2 18 US-10-092-367-185 Sequence 18 27.2 US-10-092-367-185 Sequence 18 ALIGNMENTS ALIGNMENTS ALIGNMENTS ALIGNMENTS ALIGNMENTS ATION:	8 28.5 27.7 19 14 US 9 28.5 27.7 19 14 US 1 28.5 27.7 19 14 US 2 27.7 19 14 US 2 27.2 17 19 14 US 3 28 27.2 14 9 US 4 28 27.2 17 10 US 4 28 27.2 18 14 US	Sequence 11 Sequence 13 Sequence 13 Sequence 11 Sequence 35, Sequence 35,
9 28.5 27.7 19 14 US-10-105-232-131 Sequence 13 C 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 28.5 27.7 19 14 US-10-189-437-118 Sequence 10 28.5 27.2 14 9 US-09-966-955A-35 Sequence 35, 28 27.2 17 10 US-09-96-955A-35 Sequence 35, 28 27.2 18 14 US-10-092-367-169 Sequence 18 Sequence 18 28 27.2 18 14 US-10-092-367-185 Sequence 18	9 28.5 27.7 19 14 US-10-105-232-131 Sequence 13 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 1 28.5 27.7 19 14 US-10-189-437-116 Sequence 10 2 28.5 27.2 14 9 US-09-96-955A-35 Sequence 35, 3 28 27.2 17 10 US-09-96-955A-35 Sequence 35, 4 28 27.2 18 14 US-10-092-367-169 Sequence 16 Sequence 16 2 2 27.2 18 14 US-10-092-367-169 Sequence 16 Sequence 16 2 2 2 2 2 2 2 3 2 3 2 3 2 3 2 3 2 3	28.5 27.7 19 14 US-10-105-222-131 Sequence 13 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 28 27.2 14 9 US-09-966-955A-35 Sequence 35, 28 27.2 17 10 US-09-816-433-38 Sequence 35, 28 27.2 18 14 US-10-092-367-169 Sequence 16 28 27.2 18 14 US-10-092-367-169 Sequence 16 28 27.2 18 14 US-10-092-367-185 Sequence 18 ALIGNMENTS	27.7 19 14 US-10-105-222-131 Sequence 13 27.7 19 14 US-10-1089-437-105 Sequence 10 27.7 19 14 US-10-189-437-105 Sequence 10 27.2 14 9 US-09-966-955A-35 Sequence 35, 27.2 17 10 US-09-816-433-38 Sequence 35, 27.2 18 14 US-10-092-367-169 Sequence 18 27.2 18 14 US-10-092-367-169 Sequence 18 27.2 18 US-10-092-367-185 Sequence 18 Sequence 18 27.2 18 US-10-092-367-185 Sequence 18 Sequence 18 ALIGNMENTS ALIGNMENTS ALIGNMENTS ALIGNMENTS ALIGNMENTS ATTON:	9 28.5 27.7 19 14 US 0 28.5 27.7 19 14 US 2 28. 27.7 19 14 US 2 28. 27.2 14 9 US- 3 28. 27.2 17 10 US 4 28. 27.2 18 14 US	Sequence 13 Sequence 10 Sequence 11 Sequence 35,
0 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 1 28.5 27.7 19 14 US-10-189-437-118 Sequence 10 2 2 2 27.2 14 9 US-09-966-955A-35 Sequence 35, 28 27.2 17 10 US-09-986-936-936 Sequence 35, 28 27.2 17 10 US-09-986-936-936 Sequence 38 2 2 2 27.2 18 14 US-10-092-367-169 Sequence 16 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 28.5 27.7 19 14 US-10-189-437-105 Sequence 10 1 28.5 27.7 19 14 US-10-189-437-118 Sequence 10 2 2 28 27.2 14 US-0-956-955A-35 Sequence 35, 28 27.2 17 10 US-09-96-936-433-38 Sequence 35, 28 27.2 18 14 US-10-092-367-169 Sequence 16 5 28 27.2 18 14 US-10-092-367-185 Sequence 16 Sequence 17 10 US-092-367-185 Sequence 18 14 US-10-092-367-185 Sequence 18 14 US-10-092-367-185 Sequence 18 14 US-10-092-367-185 Sequence 18 18 US-10-092-367-185 Sequence 18 18 US-10-092-367-185 Sequence 18 18 US-10-092-367-185 Sequence 1	28.5 27.7 19 14 US-10-189-437-105 Sequence 10 28.5 27.7 19 14 US-10-189-437-118 Sequence 11 28 27.2 14 9 US-09-966-955A-35 Sequence 35 28 27.2 17 10 US-09-966-955A-35 Sequence 36 28 27.2 18 14 US-10-092-367-169 Sequence 16 28 27.2 18 14 US-10-092-367-185 Sequence 16 28 27.2 18 14 US-10-092-367-185 Sequence 18 ALIGNMENTS	27.7 19 14 US-10-189-437-105 Sequence 10 27.7 19 14 US-10-189-437-105 Sequence 10 27.2 14 9 US-10-189-437-118 Sequence 35.27.2 14 9 US-09-566-955A-35 Sequence 35.27.2 18 14 US-10-092-367-169 Sequence 16 27.2 18 14 US-10-092-367-185 Sequence 16 27.2 18 14 US-10-092-367-185 Sequence 16 Sequence 16 27.2 18 14 US-10-092-367-185 Sequence 18 27.2 18 US-10-092-367-185 Sequence 18 27.2 18 US-10-092-367-185 Sequence 18 27.2 US-2030185847A1 ATTON:	0 28.5 27.7 19 14 US 2 28.5 27.7 19 14 US 2 28 27.2 14 9 US 3 28 27.2 17 10 US 4 28 27.2 18 14 US 5 28 27.2 18 14 US	Sequence 10 Sequence 11 Sequence 35, Sequence 38
1 28.5 27.7 19 14 US-10-189-437-118 Sequence 11 28 27.2 14 9 US-09-966-955A-35 Sequence 35, 28 27.2 17 10 US-09-986-955A-35 Sequence 16 28 27.2 18 14 US-10-092-367-169 Sequence 16 5 28 27.2 18 14 US-10-092-367-185 Sequence 18	1 28.5 27.7 19 14 US-10-189-437-118 Sequence 11 28 27.2 14 9 US-09-96-955A-35 Sequence 35, 28 27.2 17 10 US-09-095-367-169 Sequence 18 28 27.2 18 14 US-10-092-367-169 Sequence 16 5 28 27.2 18 14 US-10-092-367-185 Sequence 18 ALIGNMENTS	28.5 27.7 19 14 US-10-189-437-118 Sequence 11 28 27.2 14 9 US-09-966-955A-35 Sequence 35, 28 27.2 17 10 US-09-966-955A-35 Sequence 36, 28 27.2 18 14 US-10-092-367-169 Sequence 16 28 27.2 18 14 US-10-092-367-165 Sequence 16 ALIGNMENTS	27.7 19 14 US-10-189-477-118 Sequence 11 27.2 14 9 US-09-966-955A-35 Sequence 35, 27.2 17 10 US-09-836-433-38 Sequence 35, 27.2 18 14 US-10-092-367-169 Sequence 16 27.2 18 14 US-10-092-367-185 Sequence 16 27.2 18 14 US-10-092-367-185 Sequence 18 Equence 18 14 US-10-092-367-185 Sequence 18 Equence 18 ALIGNMENTS ALIGNMENTS ALIGNMENTS ALIGNMENTS ALIGNMENTS ALIGNMENTS	1 28.5 27.7 19 14 US 2 27.2 14 9 US- 3 28 27.2 17 10 US 4 28 27.2 18 14 US 5 28 27.2 18 14 US	Sequence 11 Sequence 35, Sequence 38
2 28 27.2 14 9 US-09-966-955A-35 Sequence 35, 28 27.2 17 10 US-09-816-433-38 Sequence 36, 28 27.2 18 14 US-10-092-367-169 Sequence 18 5 28 27.2 18 14 US-10-092-367-185 Sequence 18	2 28 27.2 14 9 US-09-966-955A-35 Sequence 35, 28 27.2 17 10 US-09-36-436-433-38 Sequence 36 4 28 27.2 18 14 US-10-092-367-169 Sequence 18 5 28 27.2 18 14 US-10-092-367-185 Sequence 18 ALIGNMENTS	28 27.2 14 9 US-09-966-955A-35 Sequence 35, 28 27.2 17 10 US-09-816-433-38 Sequence 35, 28 27.2 18 14 US-10-092-367-169 Sequence 16 28 27.2 18 14 US-10-092-367-185 Sequence 18 ALIGNMENTS	27.2 14 9 US-09-56-955A-35 Sequence 35, 27.2 17 10 US-09-364-3138 Sequence 36 27.2 18 14 US-10-092-367-169 Sequence 16 27.2 18 14 US-10-092-367-185 Sequence 18 ALIGNMENTS ALIGNMENTS pplication US/10354240 US/2030185847A1 ATON:	2 28 27.2 14 9 US-09-966-955A-3 3 28 27.2 17 10 US-09-816-433-3 4 28 27.2 18 14 US-10-092-367-1 5 28 27.2 18 14 US-10-092-367-1 ALTGNMENTS	Sequence 35, Sequence 38
3 28 27.2 17 10 US-09-836-433-38 Sequence 38 4 28 27.2 18 14 US-10-092-367-169 Sequence 16 5 28 27.2 18 14 US-10-092-367-185 Sequence 18	3 28 27.2 17 10 US-09-836-433-38 Sequence 38 4 28 27.2 18 14 US-10-092-367-169 Sequence 16 5 28 27.2 18 14 US-10-092-367-185 Sequence 18 ALIGNMENTS	28 27.2 17 10 US-09-836-433-38 Sequence 38 28 27.2 18 14 US-10-092-367-169 Sequence 16 28 27.2 18 14 US-10-092-367-185 Sequence 18 ALIGNMENTS	27.2 17 10 US-09-836-433-38 Sequence 38 27.2 18 14 US-10-092-367-169 Sequence 16 27.2 18 14 US-10-092-367-185 Sequence 16 27.2 18 14 US-10-092-367-185 Sequence 19 Pplication US/10354240	3 28 27.2 17 10 US-09-836-433-3 4 28 27.2 18 14 US-10-092-367-1 5 28 27.2 18 14 US-10-092-367-1 ALTGNWENTS	38 Seguence 38
4 28 27.2 18 14 US-10-092-367-169 Sequence 169, 5 28 27.2 18 14 US-10-092-367-185 Sequence 185,	4 28 27.2 18 14 US-10-092-367-169 Sequence 169, Sequence 185, 28 27.2 18 14 US-10-092-367-185 Sequence 185, ALIGNMENTS	28 27.2 18 14 US-10-092-367-169 Sequence 169, 28 27.2 18 14 US-10-092-367-185 Sequence 185, ALIGNMENTS	27.2 18 14 US-10-092-367-169 Sequence 169, 27.2 18 14 US-10-092-367-185 Sequence 185, 27.2 18 14 US-10-092-367-185 Sequence 185, 27.2 18 14 US-10-10-19-18-18-18-18-18-18-18-18-18-18-18-18-18-	4 28 27.2 18 14 US-10-092-367-1 5 28 27.2 18 14 US-10-092-367-1 ALTGNMENTS	
5 28 27.2 18 14 US-10-092-367-185 Sequence 185.	5 28 27.2 18 14 US-10-092-367-185 Sequence 185	28 27.2 18 14 US-10-092-367-185 Sequence 185.	27.2 18 14 US-10-092-367-185 Sequence 185; ALIGNMENTS Pplication US/10354240 ATION:	5 28 27.2 18 14 US-10-092-367-1 ALTGNMENTS	Segmence 169.
	ALIGNMENTS		pplication US/103542 US20030185847A1 ATION:	ALTGNMENTS	85 Sequence 185,
ESULT 1 19-10-354-240-56	(ESULT 1 JS-10-354-240-56		_		
IBSULT 1 15-10-354-240-56 15-35-2-10-35 Application US/10354240	tbSULT 1 18-10-354-240-56 Sequence 56, Application US/10354240			_	

```
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Dairlki, Kazuo
APPLICANT: Mama, Akiko
APPLICANT: Wama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT APPLICATION NUMBER: DET/JP97/00740
PRIOR APPLICATION NUMBER: OS/142,524
PRIOR APPLICATION NUMBER: US 09/142,524
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SEQ ID NOS: 174
SEQ ID NOS: 174
SEQ ID NOS: TARENTAL SECOND SECO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 68.9%; Score 71; DB 14; Length 15; Best Local Similarity 100.0%; Pred. No. 0.00012; Matches 14; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Cryptomeria japonica
FRATURE:
NAME/KEY: MISC FEATURE
COCATION: (1)...(15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 42
US-10-354-240-56
```

ö

Gapa . 0

Sequence 218, App Sequence 172, App Sequence 399, App

```
JOHNEAU INFORMATION:

JOHNEAU INFORMATION:

JOHNEAU INFORMATION:

JOHNEAU ARIOCI

JOHNEAU ARIOCI

JOHNEAU ARIOCI

JOHNEAU ARIOCI

JOHNEAU ARIOCI

JOHNEAU ARIOCI

JOHNEAU APPLICANTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

JULIA REFERENCE: SPO-103D1

CURRENT FILING DATE: 1203-01-29

PRIOR FILING DATE: 1997-03-10

PRIOR FILING DATE: 1997-03-10

PRIOR FILING DATE: 1998-09

NUMBER OF SEQ ID NOS: 174

SEQ ID NO S: 174

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Wama, Akino
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT PILING DATE: 1997-03-10
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09
NUMBER OF SEQ ID NOS: 174
SEQ ID NOS: 174
SEQ ID NOS: 174
SEQ ID NO ST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 46.6%; Score 48; DB 14; Length 15; Best Local Similarity 100.0%; Pred. No. 0.68; Matches 10; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       46.6%; Score 48; DB 14; Length 15; 100.0%; Pred. No. 0.68; Live 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; LOCATION: (1). [(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row
US-10-354-240-57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-354-240-57
; Sequence 57, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
                    US-10-354-240-9
. Sequence 9, Application US/10354240
. Publication No. US20030185847A1
. GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; ORGANISM: Cryptomeria japonica
US-10-354-240-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 100.
Matches 10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 KSMKVTVAFN 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 KSMKVTVAFN 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11 KSMKVTVAFN 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11 KSMKVTVAFN 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ద
                                                                                                                                                 Sequence 55, Application US/10354240

| Sequence 55, Application No. USZ0030185847A1
| Sequence 55, Application No. USZ0030185847A1
| Selection No. USZ0030185847A1
| GENERAL INFORMATION:
| APPLICANT: Sone, Toshio
| APPLICANT: Tume, Akino
| APPLICANT: Tume, Akino
| APPLICANT: Tume, Akino
| APPLICANT: Time, Kazuo
| APPLICANT: Time OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
| TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
| TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
| TITLE OF INVENTION NUMBER: US/10/354,240
| CURRENT FILING DATE: 1997-03-10
| PRIOR PELICATION NUMBER: US 09/142,524
| PRIOR PELING DATE: 1998-09-09
| NUMBER OF SEQ ID NOS: 174
| SEQ ID NO SS
| LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 21, Application US/09739466C

Publication No. US20050107585A1

GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: MURRAY, OSSEPH S

APPLICANT: BIAHAAN, TERUNA J

APPLICANT: HU, YONGBO

TITLE OF INVENTION: SIGNAL-1/SIGNAL-2 BIFUNCTIONAL PEPTIDE INHIBITORS

FILE REFERENCE: 2302-08805

CURRENT APPLICATION NUMBER: US/09/739,466C

CURRENT FILING DATE: 2000-12-18

NUMBER OF SEQ ID NOS: 46

SOFTWARE: Patentin Ver. 3.2

SEQ ID NO 21

LENGTH: 15

LENGTH: 15

TYPE: PRT

ORGANISM: Cryptomeria japonica
US-09-739-466C-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 67.0%; Score 69; DB 14; Length 15; 86.7%; Pred. No. 0.00026; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 46.6%; Score 48; DB 11; Length 15; Best Local Similarity 100.0%; Pred. No. 0.68; Matches 10; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LOCATION: (1).7(15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 41
US-10-354-240-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 LGHSDIYSDDKSMKV 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 LGHDDAYSDDKSMKV 15
7 YSDDKSMKVTVAFN 20
                            2 YSDDKSMKVTVAFN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 86.7°
Matches 13, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11 KSMKVTVAFN 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 KSMKVTVAFN 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 3
US-09-739-466C-21
                                                                                                                                            US-10-354-240-55
ð
                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
```

Gaps

ö

Gaps

```
ï
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .
2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ŝ
                                                                                                                                                                                                                              APPLICANT: Reded, Steven G.

APPLICANT: Lodes, Michael J.

APPLICANT: Lodes, Michael J.

APPLICANT: Houghton, Raymond L.

APPLICANT: Houghton, Raymond L.

APPLICANT: Moner, Mary

APPLICANT: Moner, Mary

APPLICANT: Homer, Mary

APPLICANT: Homer, Mary

APPLICANT: Gecriet, Heather

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS

TITLE OF INVENTION: AND TREATMENT OF B. MICROTI INFECTION
FILE REFERENCE: 21012.1.426Cll

CURRENT APPLICATION NUMBER: US/09/853,079

CURRENT FILING DATE: 201-05-09

NUMBER OF SEQ ID NOS: 224

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NOS: 218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Hodes, Michael J.
APPLICANT: Lodes, Michael J.
APPLICANT: Lodes, Michael J.
APPLICANT: Hodes, Michael J.
APPLICANT: Houghton, Raymond L.
APPLICANT: Houghton, Raymond L.
APPLICANT: McNeill, Patricia D.
APPLICANT: Homer, Mary J.
APPLICANT: Homer, Mary J.
APPLICANT: Scrist, Heather
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIACNOSIS
TITLE OF INVENTION: AND TREATMENT OF B. MICROTI INFECTION
TITLE OF INVENTION: AND TREATMENT OF B. MICROTI INFECTION
CURRENT APPLICATION NUMBER: US/10/294,443
NUMBER OF SEQ ID NOS: 243
NUMBER OF SEQ ID NOS: 243
SEQ ID NO 218
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      31.6%; Score 32.5; DB 15; Length 20; 40.0%; Pred. No. 3.1e+02; tive 3; Mismatches 4; Indels 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IndelB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 32.5; DB 10;
Pred. No. 3.1e+02;
3; Mismatches 4;
                                                                                                                                                           Sequence 218, Application US/09853079; Publication No. US20030109689A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 218, Application US/10294443
Publication No. US20040023865A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 LGH-----SDIYSDDKSMKV 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 LGHHSDMASDINDEEPSFKI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 LGH----SDIYSDDKSMKV 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 LGHHSDMASDINDEEPSFKI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 40.0%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; ORGANISM: Babesia microti
US-09-853-079-218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        , ORGANISM: Babesia microti
US-10-294-443-218
1 LGHSDIYSDD 10
                                          6 LGHDDAYSDD 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity
Matches 8; Conserv
                                                                                                                                         US-09-853-079-218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                              ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
ઠે
                                                                                                                               APPLICANT: Sume, Akinori
APPLICANT: Sume, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Dairiki, Kazuo
APPLICANT: Dairiki, Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILLE SEPERENCE: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 1997-03-10
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin Version 3.1
SEQ ID NOS: 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Dairiki, Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dises
FILE REPERENCE: SPO-1031
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 1997-003-10
PRIOR FILING DATE: 1998-03-10
PRIOR FILING DATE: 1998-09-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 14; Length 15; 0.68;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 44.7%; Score 46; DB 14; Length 15; 80.0%; Pred. No. 1.4; 2; Indels iive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 40
US-10-354-240-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 48;
Pred. No.
                                          Sequence 158, Application US/10354240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; LOCATION: (1)...(15)
; OTHER INFORMATION: Figure 7, Row a
US-10-354-240-158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           46.6%; Sco...
100.0%; Pre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; Sequence 54, Application US/10354240; Publication No. US20030185847A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 54
LENGTH: 15
                                                                 Publication No. US20030185847A1
GENERAL INFORMATION:
APPLICANT: Sone, Toshio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 100.
Matches 10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11 KSMKVTVAFN 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 KSMKVTVAFN 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: MISC_FEATURE
```

ò 셤

```
Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 14
US-10-079-137B-400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-079-137B-399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-079-137B-399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  유
                                      Sequence 172, Application US/10084813
| Publication No. US20030068615A1
| GENERAL INFORMATION:
| APPLICANT: SAXINGER, CARL
| TITLE OF INVENTION: POLYPEPTIDES THAT BIND HIV GP120 AND RELATED NUCLEIC
| TITLE OF INVENTION: ACIDS, ANTIBODIES, COMPOSITIONS, AND METHODS OF USE
| FILE REFERENCE: 218875
| CURRENT APPLICATION NUMBER: US/10/084,813
| CURRENT FILING DATE: 2000-08-25
| PRIOR APPLICATION NUMBER: PCT/US00/23505
| PRIOR APPLICATION NUMBER: US 60/151,270
| PRIOR FILING DATE: 1999-08-27
| NUMBER OF SEQ ID NOS: 1242
| SOFFWARE: Patentin version 3.1
| SEQ ID NO 172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: binding peptide
US-10-084-813-172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-212-679-399

Sequence 399, Application US/10212679

Publication No. US20030125536A1

GENERAL INFORMATION:

APPLICANT: Hist, Shannon Kathleen

APPLICANT: Dillon, Davin

APPLICANT: Poy, Teresa

APPLICANT: Poy, Teresa

APPLICANT: Poy Teresa

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER

FILE REFERENCE: 210121-419C14

CURRENT APPLICATION NUMBER: US/10/212,679

CURRENT FILING DATE: 2002-08-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         31.1%; Score 32; DB 14; Length 20; 54.5%; Pred. No. 3.8e+02; ive 2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 31.1%; Score 32; DB 14; Length 18
Best Local Similarity 41.2%; Pred. No. 3.3e+02;
Matches 7; Conservative 3; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS: 428
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 399
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-212-679-400
; Sequence 400, Application US/10212679
; Publication No. US20030125536A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 LSHSKGHQKRKALKTTV 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 LGHSDIYSDDKSMKVTV 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity 54.9
Matches 6, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3 HSDIYSDDKSM 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ||::|| |
8 HYAIYNEDKLM 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Homo sapiens
RESULT 10
US-10-084-813-172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-212-679-399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Misher, Curia.
APPLICANT: Dillon, Davin C.
APPLICANT: Billon, Davin C.
APPLICANT: Reter, Marc W.
APPLICANT: Skeiky, Yasir A. W.
APPLICANT: Skeiky, Yasir A. W.
APPLICANT: Barlocker, Susan L.
APPLICANT: Li, Samuel X.
APPLICANT: Li, Samue
APPLICANT: Farger, Gary
APPLICANT: Hirst, Shannon Kathleen
APPLICANT: Hirst, Shannon Kathleen
APPLICANT: Hirst, Shannon Kathleen
APPLICANT: Poy, Teresa
APPLICANT: Gorgenia, David
APPLICANT: Calos, Michael
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
FILE REFERENCE: 21012.49214
CURRENT APPLICATION NUMBER: US/10/212,679
CURRENT FILING DATE: 2002-08-02
NUMBER OF SEQ ID NOS: 428
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          31.1%; Score 32; DB 15; Length 20; 54.5%; Pred. No. 3.8e+02; tive 2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 32; DB 14; Length 20;
Pred. No. 3.8e+02;
2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 399, Application US/10079137B Publication No. US20040073016A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; Sequence 400, Application US/10079137B; Publication No. US20040073016A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
31.1%;
Best Local Similarity 54.5%;
Matches 6; Conservative 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Frudakis, Tony N. APPLICANT: Reed, Steven G. APPLICANT: Smith, John M. APPLICANT: Misher, Lynda E. APPLICANT: Dillon, Davin C. APPLICANT: Retter, Marc W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3 HSDIYSDDKSM 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ||::|| |
3 HYAIYNEDKLM 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3 HSDIYSDDKSM 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8 HYAIYNEDKLM 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Homo sapiens
US-10-212-679-400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Homo sapiens
```

```
RESULT 15
US-10-033-741-38
US-10-033-741-38
Sequence 38, Application US/10033741
Sequence 38, Application US/10033741
Sequence 38, Application US/20030049640A1
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: Proteins, Genes and Their Use For Diagnosis and Treatment of Vasc;
TITLE OF INVENTION: Response
TITLE OF INVENTION: Response
TITLE OF INVENTION: Response
CURRENT FILING DATE: 2001-12-27
NUMBER OF SEQ ID NOS: 80
SOCTHARE: PATENTING DATE: 2001-12-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
          APPLICANT: Smith, John M.

APPLICANT: Smith, John M.

APPLICANT: Smith, John M.

APPLICANT: Misher, Lynda E.

APPLICANT: Retter, Marc W.

APPLICANT: Retter, Marc W.

APPLICANT: Retter, Marc W.

APPLICANT: Retter, Susan L.

APPLICANT: Bang, Ain M.

APPLICANT: Bang, Ta

APPLICANT: Deng, Ta

APPLICANT: Deng, Ta

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER

FILE REFERENCE: 210121.4137B

CURRENT FILING DATE: 202-02-20

NUMBER OF SEQ ID NOS: 428

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 400

SEQ ID NO 400

TYPE: PRT

CORGANISM: Home sapiens

US-10-079-137B-400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 32; DB 15; Length 20;
Pred. No. 3.8e+02;
2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 29.1%; Score 30; DB 14; Length 14; Best Local Similarity 42.9%; Pred. No. 5.3e+02; Matches 6; Conservative 3; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Search completed: June 20, 2005, 15:55:16 Job time : 54.45 sec8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31.1%;
54.5%;
Reed, Steven G.
Smith, John M.
Misher, Lynda E.
Dillon, Davin C.
Retter, Marc W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 LGHSDIYSDDKSMK 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 54.5
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3 HYAIYNEDKLM 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3 HSDIYSDDKSM 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-033-741-38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         임
```

THIS PAGE BLANK (USPTO)

```
USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02154
                                                                                                                                                                                                                                                                                                                US-08-467-023-46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              46, Appl
52,4, App
55, Appl
240, App
240, App
241, App
241, App
257, App
227, App
236, App
257, App
267, App
267, App
276, App
276, App
277, App
276, App
277, App
                                                                          June 20, 2005, 14:04:11; Search time 16.15 Seconds (without alignments) 92.445 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence Sequence Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                          1: /cgn2_6/ptcdata/1/iaa/5A_COMB.pep:*
2: /cgn2_6/ptcdata/1/iaa/5B_COMB.pep:*
3: /cgn2_6/ptcdata/1/iaa/6A_COMB.pep:*
5: /cgn2_6/ptcdata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/ptcdata/1/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptcdata/1/iaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                       Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-467-023-250
                                                                                                                                                                                                                              513545 seqs, 74649064 residues
                                                                                                                                                                                                                                                                                                                      Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                   protein search, using sw model
                                                                                                                               US-09-202-464-23
103
1 LGHSDIYSDDKSMKVTVAFN 20
                                                                                                                                                                                    BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                               Issued_Patents_AA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query
Match Length
                                                                                                                                                                                                                                                                                   seq length: 0
seq length: 20
                                                                                                                                              Perfect score:
                                                                                                                                                                                       Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Minimum DB
Maximum DB
                                                   OM protein
                                                                                                                                                             Sequence:
                                                                              Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ٠
و
```

ALIGNMENT

```
Sequence 46, Application US/08467023

Patent No. 6090386

GENERAL INFORMATION:
APPLICANT: Gilfeth, Irwin J.;
APPLICANT: Garman, Richard D;
APPLICANT: Pollock, Joanne;
APPLICANT: Pollock, Joanne;
APPLICANT: Examer, Andrew;
APPLICANT: MA
COUNTRY: USA
COUNTRY: Watham
```

```
US-09-142-524D-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                         ö
                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                              APPLICANT: Griffeth, Irwin J.;
APPLICANT: Griffeth, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Yeung, Silu-mei H.;
APPLICANT: Yeung, Silu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exteven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immulogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
COUNTRY: USA
ZIP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .
0
                                                                                                         ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          73.8%; Score 76; DB 3; Length 20; 93.8%; Pred. No. 2.5e-06; tive 0; Mismatches 1; Indels
                                                   91.3%; Score 94; DB 3; Length 20; 90.0%; Pred. No. 2.2e-09; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 0215 4

ZIP: 0215 4

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC COMPATIBLE
COMPUTER: DATE: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIPICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY FORT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEPAX: (617) 227-7400
TELEPAX: (617) 227-7401
TELECAXI (617) 227-7401
TELEPAX: (617) 227-7401
                                                                                                                                                               1 LGHSDIYSDDKSMKVTVAFN 20
                                                                                                                                                                                                 1 LGHDDAYSDDKSMKVTVAFN 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5 DIYSDDKSMKVTVAFN 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DAYSDDKSMKVTVAFN 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 93.8<sup>3</sup>
Matches 15; Conservative
                                                                            Best Local Similarity 90.0 Matches 18; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-467-023-234
US-08-467-023-46
                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                    à
                                                                                                                                                                                                                     셤
```

RESULT 3

```
Sequence 56, Application US/09142524D

Sequence 56, Application US/09142524D

Sequence 56, Application US/09142524D

Batent No. 6719976

GENERAL INFORMATION:

APPLICANT: Sone, Toahio

APPLICANT: Sone, Toahio

APPLICANT: Nume, Akinori

APPLICANT: Mino, Kohsuke

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION NUMBER: US/09/142,524D

CURRENT APPLICATION NUMBER: DF1/JP97/00740

PRIOR FILING DATE: 1997-03-10

PRIOR FILING DATE: 1997-03-10

NUMBER OF SEQ ID NOS: 174

SOFTWARE: Patentin version 3.1

SEQ ID NO 56

LENTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Debergary Involvation:

APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Sone, Akinori
APPLICANT: Kame, Akinori
APPLICANT: Ivama, Akiko
APPLICANT: Ivama, Akiko
APPLICANT: Ivama, Akiko
APPLICANT: Ivama, Akiko
APPLICANT: Kino, Kohsuke
TITLE REPREBUTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea,
CURRENT FILING DATE: 1990-103
CURRENT FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: PatentIn version 3.1
SEQ ID NO 55
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               67.0%; Score 69; DB 4; Length 15; 86.7%; Pred. No. 2.8e-05; Live 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 68.9%; Score 71; DB 4; Length 15; Best Local Similarity 100.0%; Pred. No. 1.3e-05; Matches 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (1) ...(15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 42
US-09-142-524D-56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; LOCATION: (1). 7 (15); OTHER INFORMATION: Cryjl peptide, Figure 1, Row 41 US-09-142-524D-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Sequence 55, Application US/09142524D
; Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 LGHDDAYSDDKSMKV 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7 YSDDKSMKVTVAFN 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2 YSDDKSMKVTVAFN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 86.7'
Matches 13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
```

```
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.;
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
MUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Pollock, Joanne;
APPLICANT: Pollock, Joanne;
APPLICANT: Pollock, Joanne;
APPLICANT: Garman, Richard D;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Evenng, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCES: 261
ADDRESSER: Immulogic Pharmaceutical Corporation, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Eloppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Petentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION NATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
MAME: Jane E. Remillard: 38,872
REFERENCE/DOCKET NUMBER: 38,872
REFERENCE/DOCKET 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              58.3%; Score 60; DB 3; Length 19; 100.0%; Pred. No. 0.0013; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 246, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 58.3
Best Local Similarity 100.
Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-467-023-239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9 DDKSMKVTVAFN 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-467-023-246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Kuo, Mel-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew H.;
APPLICANT: Brauer, Andrew A.;
APPLICANT: Brauer, Andrew A.;
APPLICANT: Brauer, Andrew P.
TITLE OF INVENTION: Albergenic Proteins And Peptides From TITLE OF INVENTION: Albergenic Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSES: Immulogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St CITY: Waltham
COUNTRY: USA
CONPUTER READABLE FORM:
MAN
COMPUTER READABLE FORM:
MEDIUM TYPE: FLORDY disk
COMPUTER PARTIENT Release #1.0, Version #1.25
COMPUTER: BA PC Compatible
COMPUTER: DEADABLE FORM:
MEDIUM TYPE: PLOPDY disk
COMPUTER: DISA
COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMPUTER: OB COMP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 60; DB 3; I
Pred. No. 0.0011;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 239, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
                                                                                                                                                                                                                   Sequence 240, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian R.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             58.3%; Scc.
100.0%; Pre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 58.3
Best Local Similarity 100.
Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9 DDKSMKVTVAFN 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DDKSMKVTVAFN 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            linear
                                                                                                                                                                                        US-08-467-023-240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-467-023-240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-467-023-239
                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
```

g

ô

Gaps

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ratent No. 6090386

GENERAL INFORMATION:
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Bond, Julian F.;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Exley, Mark A.;
APPLICANT: Dowers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immulogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                   Score 56; DB 3; Length 17;
Pred. No. 0.0053;
1; Mismatches 0; Indels
                               NAME: Jane E. Remillard

REGISTRATION NUMBER: 38,872

REGISTRATION NUMBER: 38,872

TELECOMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-541

INFORMATION FOR SEQ ID NO: 241:
SEQUENCE CHARCTERISTICS:
LENGTH: 17 amino acid
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/POCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION OF 227-7400
TELECOMMUNICATION OF 227-7400
TELECOMMUNICATION OF 227-7400
SEQUENCE CHARACTER/STICS:
LENGTH: 17 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:

COMPUTER: Floppy disk.

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION NDATA:

APPLICATION NUMBER: US/08/467,023

FILING DATE: June 6, 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-467-023-242
; Sequence 242, Application US/08467023
; Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                                      54.4%;
91.7%;
               ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9 DDKSMKVTVAFN 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2 EDKSMKVTVAFN 13
                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ZIP: 02154
                                                                                                                                                                                                                                                                                                                                                                 US-08-467-023-241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ብ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Griffeth, Irwin J.;
APPLICANT: Bollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mal-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Drowers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immulcaic Pharmaceutical Corporation, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 56; DB 3; Length 16;
Pred. No. 0.0049;
1; Mismatches 0; Indels
COMPUTER READBBLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: EN PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REGISTRATION NUMBER: 327-7400
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-5941
INFORMATION FOR SEQ IS NO. 246:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amin a acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Floppy disk
COMPUTER: Ploppy disk
COMPUTER: Ploppy disk
COMPUTER: Parentln Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION 1424
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
FILING DATE: December 6, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 241, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 54.4%;
Best Local Similarity 91.7%;
Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9 DDKSMKVTVAFN 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           YPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CITY: Waltham
STATE: MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-467-023-246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
```

```
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bold, Ullian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Erung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Allergenic Proteins And Peptides From TITLE OF INVENTION: Allergenic Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSORS: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: Maltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PAtentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
FRICH APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGRY INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEFRAM: (617) 227-7400
TELEFRAM: (617) 227-5941
INFORMATION FOR SEQ ID NO: 227:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 54.4%; Score 56; DB 3;
91.7%; Pred. No. 0.006;
tive 1; Mismatches (
                                                                      Sequence 227, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffeth, Irwin J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 121, Application US/08467023; Patent No. 6090386; GENERAL INFORMATION:
APPLICANT: Griffeth, Irwin J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Griffeth, Irwin J.,
Pollock, Joanne,
Bond, Julian F.,
Garman, Richard D,
Kuo, Mei-Chang;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Yeung, Siu-mei H.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 19 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 91.7
Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9 DDKSMKVTVAFN 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Æ
                                                 JS-08-467-023-227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-467-023-227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 12
US-08-467-023-121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                       Gaps
                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ..
o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Collian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Garman, Richard D;
APPLICANT: Wou, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunogic Pharmaceutical Corporation, Inc.
                                                                                                Score 56; DB 3; Length 17;
Pred. No. 0.0053;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           54.4%; Score 56; DB 3; Length 18; 91.7%; Pred. No. 0.0056; tive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STTE: MA
COUNTRY: USA
COUNTRY: USA
ZIP: 0.2154
ZIP: 0.2154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFTCATION: 4.24
PRIOR APPLICATION MATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REPERENCE/DOCKET NUMBER: 38,872
                                                                                                                                                                                                                                                                                                                                                                             Sequence 253, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Griffeth, Irwin J.;
Pollock, Joanne;
Bond, Julian F.;
Garman, Richard D;
Kuo, Mei-Chang;
Yeung, Siu-mei H.;
Brauer, Andrew;
Exley, Mark A.;
                                                                                                     54.4%;
91.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                              Query Match
Best Local Similarity 91.7
Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 18 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 91.7
Matches 11; Conservative
                                                                                                                                                                                                                                   9 DDKSMKVTVAFN 20
                                                                                                                                                                                                   9 DDKSMKVTVAFN 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 DEKSMKVTVAFN 12
                            internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Waltham
; MOLECULE TYPE:
; FRAGMENT TYPE:
US-08-467-023-242
                                                                                                                                                                                                                                                                                                                                                           US-08-467-023-253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-467-023-253
                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                     셤
```

Gaps

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INCORNATION:

APPLICANT Griffeth, Irwin J.;

APPLICANT Griffeth, Irwin J.;

APPLICANT Gollock, Joanne;

APPLICANT Bond, Julian F.;

APPLICANT Garman, Richard D;

APPLICANT Garman, Richard D;

APPLICANT Steven F.;

APPLICANT Exauer, Andrew;

APPLICANT Steven F.;

APPLICANT Brauer, Andrew;

APPLICANT Brauer, AN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           50.5%; Score 52; DB 3; Length 19; 83.3%; Pred. No. 0.029;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1; Indels
                               COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 327-7400
TELEPHONE: (617) 227-7400
TELEPHONE: (617) 227-7400
TELEPKX: (617) 227-75941
INPORMATION FOR SEQ ID NO: 122:
SEQUENCE CHARACTERISTICS:
LENGTH: 19 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Sequence 230, Application US/08467023
; Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 08/350,225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 50.5
Best Local Similarity 83.3
Matches 10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9 DDKSMKVTVAFN 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |:|||||| |||
1 DEKSMKVTAAFN 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ) MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY: UR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 14
US-08-467-023-230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Pollock, Joanne;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mai-Chang;
APPLICANT: Kuo, Mai-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Exley, Mark A;
APPLICANT: Exley, Mark A;
APPLICANT: Exley, Mark A;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
STRRET: 610 Lincoln St
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Japanese Cedar Pollen
TITLE OF INVENTION: 3261
CORRESPONDENCES: 261
ADDRESSE: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 52; DB 3; Length 19;
Pred. No. 0.029;
1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
GURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATE: OB/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/COMPUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 122, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       50.5%;
                                                                                                                                                                                                                                                                                                                                                                                      CITY: Waltham
STATE: MA
COUNTR: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy di
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 83.3
Matches 10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9 DDKSMKVTVAFN 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 DEKSMKATVAFN 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-467-023-121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 13
US-08-467-023-122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
```

ò

TOPOLOGY: linear

```
PULICANT NUMBER: 31,972

MANE: JARE REMINITOR NUMBER: 31,972

MANE: JARE MANE: (17,775

MANE: JARE MANE: (17,775

MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JARE MANE: JA
```

```
MOLECULE TYPE: peptide

i RAGMENT TYPE: internal
US-08-467-023-257

Query Match

Best Local Similarity 83.3%; Pred. No. 0.055;

Matches 10; Conservative 2; Mismatches 0; Indels 0; Gaps 0

Qy 9 DDKSMKVTVAFN 20

::|||||||||||||||

Db 1 NNKSMKVTVAFN 12

Search completed: June 20, 2005, 14:22:21
Job time: 17.15 secs
```

THIS PAGE BLANK (USPTO)

```
US-10-354-240-9
; Sequence 9, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KSMKVTVAFNOFGPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 100.0
Matches 15, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JS-09-739-466C-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-739-466C-21
유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                              June 20, 2005, 14:14:01; Search time 53.45 Seconds (without alignments) 143.678 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 21, A Sequence 57, Ap Sequence 158, A Sequence 58, A Sequence 56, A Sequence 56, A Sequence 73, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 73, 1
Sequence 73, 1
Sequence 73, 1
Sequence 73, 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FUDILIBRICA APPLICATIONS AND TO THE PROCESS OF THE 
           GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-739-466C-21

US-10-354-240-9

US-10-354-240-57

US-10-354-240-58

US-10-354-240-59

US-10-354-240-59

US-10-354-240-59

US-10-079-167-73

US-10-653-624-73

US-10-633-745-73
                                                                                                                                                                                                                                                                                                                                                                                                                                             Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                     1714042 segs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Published_Applications_AA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                   - protein search, using sw model
                                                                                                                                                                                                                                        US-09-202-464-24
103
1 KSMKVTVAFNQFGPNAGQRM 20
                                                                                                                                                                                                                                                                                                                                                          Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             seq length: 0
seq length: 20
                                                                                                                                                                                                                                                                                                                                   BLOSUM62
                                                                                                                                                                                                                                                                                                                                     Scoring table:
                                                                                                                                                                                                                                                                  Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          78 778 78 748 748 330 330 330 330
                                                                                                      OM protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Minimum DB
Maximum DB
                                                                                                                                                                                                                                                                                          Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Result
```

```
Sequence 32, Appl
Sequence 48, Appl
Sequence 48, Appl
Sequence 1288, Ap
Sequence 1288, Ap
Sequence 1508, Ap
Sequence 8, Appli
Sequence 8, Appli
Sequence 8, Appli
Sequence 8, Appli
Sequence 9, Appli
Sequence 33, Appli
Sequence 79, Appl
Sequence 170, Appl
Sequence 170, Appl
Sequence 170, Appl
Sequence 171, Appl
Sequence 170, Appl
Sequence 29, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21, Application US/09739466C
Publication No. US20050107585A1
GENERAL INFORMATION
APPLICANT: MURRAY, JOSEPH 8
APPLICANT: SIAHAAN, TERUNA J
APPLICANT: SIAHAAN, TERUNA J
APPLICANT: HU, YONGBO
ITILE OF INVENTION: SIGNAL-1/SIGNAL-2 BIFUNCTIONAL PEPTIDE INHIBITORS
ITILE REFERENCE: 23902-08805
CURRENT PELLICANT: 23002-08805
CURRENT FILING DATE: 2000-12-18
NUMBER OF SEQ ID NOS: 46
SOFTWARE: PATENTING DATE: 3.2
SEQ ID NO 21
LENGTH: 15
                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 15;
6 US-10-833-744-73
6 US-10-686-943-73
US-10-686-943-73
US-10-730-454-32
US-10-730-454-32
US-10-730-454-32
US-10-239-423-53
US-10-239-423-53
US-10-239-423-53
US-10-225-567A-1288
US-10-225-567A-1288
US-10-225-567A-1288
US-10-384-451-8
US-10-39-441-37
US-10-912-441-37
US-10-912-441-37
US-10-912-441-37
US-10-912-441-37
US-10-912-441-38
US-10-912-441-37
US-10-912-441-38
US-10-912-441-38
US-10-447-839A-8
US-10-425-378-29
US-10-427-839A-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 78; DB 11; I
Pred. No. 2.1e-06;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             75.7%; Scor.
100.0%; Pre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Cryptomeria japonica
```

ô

Gaps

```
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohauke
TITLE OP INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 2003-01-29
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: US 09/142,524
PRIOR APPLICATION NUMBER: US 09/142,524
SPRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          73.8%; Score 76; DB 14; Length 15; 93.3%; Pred. No. 4.7e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 78; DB 14; I
Pred. No. 2.1e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                , LOCATION: (1). (15)
, OTHER INFORMATION: Cryjl peptide, Figure 1, Row
US-10-354-240-58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                   COCATION: (1). (15)
CTHER INFORMATION: Figure 7, Row
US-10-354-240-158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 75.7%; i
Best Local Similarity 100.0%;
Matches 15; Conservative 0
                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Cryptomería japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 TVAFNQFGPNCGQRM 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 KSMKVTVAFNQFGPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 KSMKVTVAFNOFGPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6 TVAFNQFGPNAGQRM 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 93.33
Matches 14; Conservative
                                    Kume, Akinori
Dairiki, Kazuo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: MISC_FEATURE
GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                      LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Bairiki Kazuo
APPLICANT: Mama, Akiko
APPLICANT: Wama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103D1
CURRENT FILING DATE: 1997-00-1029
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: US 09/142,524
PRIOR APPLICATION NUMBER: US 09/142,524
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SQOFTWARE: Patentin version 3.1
SEQ ID NO 57
LENGTH: 15
                                                                     APPLICANT: Kinc, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 2003-01-29
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SEQ ID NO S: 174
SEQ ID NO 9: 174
SEQ ID NO 9: 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 75.7%; Score 78; DB 14; Length 15; Best Local Similarity 100.0%; Pred. No. 2.1e-06; Matches 15; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LOCATION: (1).7(15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 43
US-10-354-240-57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            75.7%; Score 78; DB 14; L
100.0%; Pred. No. 2.1e-06;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; Sequence 158, Application US/10354240; Publication No. US20030185847A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-354-240-57
; Sequence 57, Application US/10354240
; Publication No. US20030185847A1
                                                                                                                                                                                                                                                                                                                                                       ; ORGANISM: Cryptomeria japonica
US-10-354-240-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 KSMKVTVAFNQFGPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 KSMKVTVAFNQFGPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 KSMKVTVAFNQFGPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 KSMKVTVAFNQFGPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity 100.
Matches 15; Conservative
                                  Dairiki, Kazuo
                                                         Iwama, Akiko
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-354-240-158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
```

ò 셤

ö

ö

셤

1 KSMKVTVAFN 10

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Hill, Aditan V.S.
APPLICANT: Hill, Aditan V.S.
APPLICANT: Gilbert, Sarah C.
APPLICANT: Gilbert, Sarah C.
APPLICANT: Schneider, Jorg
APPLICANT: Plebanski, Magdalena
APPLICANT: Blanchard, Tomas
APPLICANT: Blanchard, Tom
TITLE OF INVENTION: Methods and Reagents for Vaccination
TITLE OF INVENTION: Mich Generate A CD8 T Cell Immune Response
FILE REPERBNCE: 2907.100-000
CURRENT FILING DATE: 1999.1209
PRIOR APPLICATION NUMBER: US/09/454,204A
PRIOR APPLICATION NUMBER: PCT/GB98/01681
PRIOR PLLING DATE: 1998-06-09
PRIOR FILING DATE: 1998-06-09
PRIOR FILING DATE: 1998-06-09
PRIOR FILING DATE: 1998-06-09
PRIOR FILING DATE: 1997-06-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; OTHER INFORMATION: CTL Peptide Epitope of P. falciparum TRAP US-10-079-167-73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29.1%; Score 30; DB 14; Length 9; 62.5%; Pred. No. 1.6e+06; tive 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                APPLICANT: Hill, Adrian V.S.
APPLICANT: Gilbert, Sazah C.
APPLICANT: Gilbert, Sazah C.
APPLICANT: Gilbert, Sazah C.
APPLICANT: Schneider, Joerg
TITLE OF INVENTION: Vaccination Method
FILE REFERENCE: 2907.1000-001
CURRENT APPLICATION NUMBER: US/10/79,167
CURRENT FILING DATE: 1999-12-09
PRIOR PILING DATE: 1999-12-09
PRIOR PILING DATE: 1998-0.09
PRIOR PILING DATE: 1998-0.09
PRIOR PILING DATE: 1998-0.09
PRIOR PILING DATE: 2001-09-13
                                                                                                                                                                                                                    Sequence 73, Application US/10079167
Publication No. US20030138454A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 73, Application US/10653624
Publication No. US20040131594A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: McMichael, Andrew APPLICANT: Hill, Adrian V.S. APPLICANT: Gilbert, Sarah C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 29.1
Best Local Similarity 62.5
Matches 5; Conservative
                                                        6 KSMKVTVAFN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       S VTVAFNOF 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 INVAFNRF 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Unknown
8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence Application US/10354240

Publication No. US20030185847A1

Sequence Co. VS20030185847A1

GENERAL INFORMATION:

APPLICANT: Sone, Toshior

APPLICANT: Wame, Akinori

APPLICANT: Wame, Akinori

APPLICANT: Wame, Akiko

APPLICANT: Wino, Kohsuke

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Poptide-Based Immunotherapeutic Agent for Treating Allergic Disea

FILE REFERENCE: SPO-103D1

CURRENT APPLICATION NUMBER: US/10/354,240

CURRENT FILING DATE: 1991-03-10

PRIOR PILING DATE: 1998-09-09

PRIOR PILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: PatentIn version 3.1

SEQ ID NO 56

LENGTH: 15
                                                                                                                                                                  APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Dairiki, Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Wino, Kobbauke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: SPO-103D1
CURRENT PAPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 1997-03-10
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: US 09/142,524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               49.5%; Score 51; DB 14; Length 15; 90.0%; Pred. No. 0.098;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         46.6%; Score 48; DB 14; Length 15; 100.0%; Pred. No. 0.32; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCATION: (1).7(15)
CTHER INFORMATION: Cryjl peptide, Figure 1, Row 45
US-10-354-240-59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; LOCATION: (1). 7(15); OTHER INFORMATION: Cryjl peptide, Figure 1, Row 42 US-10-354-240-56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches
                US-10-354-240-59
; Sequence 59, Application US/10354240
; Publication No. US20030185847A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Voery Match
Best Local Similarity 90.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 100.
Matches 10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ||||| || |||
QFGPNCGQRM 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11 OFGPNAGORM 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: MISC_FEATURE
```

셤 ઠે

ò

```
Sequence 73, Application US/10833744

Sequence 73, Application US/10833744

Publication No. US20040197349A1

GENERAL INFORMATION:

APPLICANT: Mill, Adrian V.S.

APPLICANT: Gilbert, Sarah C.

APPLICANT: Gilbert, Sarah C.

APPLICANT: Hill, Adrian V.S.

APPLICANT: Hanke, Tomas

APPLICANT: Blanchard, Toma

APPLICANT: Blanchard, Tom

TITLE OF INVENTION: Which Generate A CD8 T Cell Immune Response

PRIOR PERERRENCE: 2907.1000-000

CURRENT FILING DATE: 2004.04-08

PRIOR APPLICATION NUMBER: US/10/686,943

PRIOR APPLICATION NUMBER: US/09/454,204

PRIOR FILING DATE: 1999-12-09

PRIOR FILING DATE: 1999-06-09

PRIOR FILING DATE: 1999-06-09

PRIOR FILING DATE: 1997-06-09

NUMBER OF SEQ ID NOS: 78

SEQ ID NO 73

LENGTH. BARCH.
APPLICANT: Plebanski, Magdalena
APPLICANT: Hanke, Tomas
APPLICANT: Baith, Geoffrey L.
APPLICANT: Saith, Geoffrey L.
APPLICANT: Blanchard, Tom
TITLE OF INVENTION: Which Generate A CD8 T Cell Immune Response
TITLE OF INVENTION: Which Generate A CD8 T Cell Immune Response
TITLE OF INVENTION: Which Generate A CD8 T Cell Immune Response
FILE REFERENCE: 2907.1000.000
CURRENT APPLICATION NUMBER: US/10/686,943
PRIOR APPLICATION NUMBER: US/20/486,943
PRIOR PILING DATE: 2003-10-16
PRIOR APPLICATION NUMBER: PCT/GB98/01681
PRIOR APPLICATION NUMBER: PCT/GB98/01681
PRIOR FILING DATE: 1998-06-09
PRIOR FILING DATE: 1998-06-09
PRIOR FILING DATE: 1998-06-09
NUMBER OF SEQ ID NOS: 78
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 73
LIBNGTH: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; FEATURE:
; OTHER INFORMATION: CTL Peptide Epitope of P. falciparum TRAP
US-10-833-744-73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: CTL Peptide Epitope of P. falciparum TRAP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 29.1%; Score 30; DB 16; Length 9; Best Local Similarity 62.5%; Pred. No. 1.6e+06; Matches 5; Conservative 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29.1%; Score 30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5 VTVAFNQF 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               : ||||:|
1 INVAFNRF 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-833-745-73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: MACHAGE, Andrew
APPLICANT: Hill, Adrian V. S.
APPLICANT: Gilbert, Sarah C.
APPLICANT: Gilbert, Sarah C.
APPLICANT: Gilbert, Sarah C.
APPLICANT: Gilbert, Jorg
APPLICANT: Plebanski, Magdalena
APPLICANT: Plebanski, Magdalena
APPLICANT: Blanchard, Toma
TITLE OF INVENTION: Mathods and Reagents for Vaccination
TITLE OF INVENTION: Make, 1000-000
TITLE OF INVENTION: Which Generate A CD8 T Cell Immune Response
FILE REFERENCE: 2907.1000-000
CURRENT APPLICATION NUMBER: US/10/686,943
PRIOR PLILNG DATE: 2003-10-16
PRIOR APPLICATION NUMBER: US/09/454,204
PRIOR APPLICATION NUMBER: CT/GB98/01681
PRIOR APPLICATION NUMBER: ET/GB98/01681
PRIOR PLILNG DATE: 1999-12-09
PRIOR PLILNG DATE: 1999-12-09
PRIOR PLILNG DATE: 1998-06-09
NUMBER OF SEQ ID NOS: 78
SOFTWARE: PSACSEQ for Windows Version 4.0
SEQ ID NO 73
LENGTH: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ;
0
                                                                                                                                                                                                                                                                                                                                                ;
                                                                                                                                                                                                      ; OTHER INFORMATION: CTL Peptide Epitope of P. falciparum TRAP US-10-653-624-73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; OTHER INFORMATION: CTL Peptide Epitope of P. falciparum TRAP
US-10-833-439-73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ouery Match 29.1%; Score 30; DB 16; Length 9; Best Local Similarity 62.5%; Pred. No. 1.6e+06; Matches 5; Conservative 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                      Query Match 29.1%; Score 30; DB 16; Length 9; Best Local Similarity 62.5%; Pred. No. 1.6e+06; Matches 5; Conservative 2; Mismatches 1; Indels
        NUMBER OF SEQ ID NOS: 78
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 73
LENGTH: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-833-745-73
Sequence 73, Application US/10833745
Fublication No. US20040191272A1
GENERAL INFORMATION:
APPLICANT: McMichael, Andrew
APPLICANT: Hill, Adrian V.S.
APPLICANT: Gilbert, Sarah C.
APPLICANT: Schneider, Jorg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 73, Application US/10833439; Publication No. US20040175365A1; GENERAL INFORMATION: APPLICANT: MCMichael, Andrew
                                                                                                                                                                                                                                                                                                                                                                                                    5 VTVAFNQF 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5 VTVAFNQF 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 INVAFNRF 8
                                                                                                                                                                                                                                                                                                                                                                                                                                      : ||||:|
1 INVAFNRF 8
                                                                                                                  TYPE: PRT
ORGANISM: Unknown
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
ORGANISM: Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-833-439-73
```

ઠે 요

ö

ij

```
Gарв
                                                                                                                    <u>.</u>
۲
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                              Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 28.2%; Score 29; DB 16; Length 9; Best Local Similarity 100.0%; Pred. No. 1.6e+06; Matches 5; Conservative 0; Mismatches 0; Indels
                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                               NESOLI 15
US-10-730-454-26
US-10-730-454-26
US-10-730-454-26
Sequence 26, Application US/10730454
Publication No. US20040175757A1
GENERAL INFORMATION:
APPLICANT: Roggen, Erwin
APPLICANT: Branet, Steffen
TITLE OF INVENTION: Low Allergenic Protein Variants
FILE REFERENCE: 5676.200-US
CURRENT APPLICATION NUMBER: US/10/730,454
CURRENT FILING DATE: 2003-12-08
PRIOR APPLICATION NUMBER: US/09/417,608
PRIOR FILING DATE: 1999-10-13
SOFTWARE: PARCHING PATE: 1999-10-13
SOFTWARE: PARCHING VERSION 3.2
LEWINGER OF SEQ ID NOS: 101
SEQ ID NO 26
                                          Score 29.5; DB 14;
Pred. No. 7e+02;
6; Mismatches 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Search completed: June 20, 2005, 15:55:17
Job time : 54.45 secs
                                                                                                                                                                                                                                        3 SIRASLTFNR-GFKAGRNM 20
                                                                                                                                                                                         2 SMKVTVAFNQFGPNAGQRM 20
                                          Query Match 28.6%;
Best Local Similarity 36.8%;
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: Synthetic US-10-730-454-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     13 GPNAG 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4 GPNAG 8
                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 74, Application US/10282960
Publication No. US20030143228A1
GENERAL INFORMATION:
APPLICANT: Chen, Si-Yi
APPLICANT: Schroerse, Rolanderse, Rol
                                              ö
                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: MCMICABLION:
APPLICANT: MCMICABLI, Adrian V.S.
APPLICANT: McMichael, Andrew
APPLICANT: Gilbert, Sarah C.
APPLICANT: Schneider, Jorg
APPLICANT: Schneider, Jorg
APPLICANT: Plebanski, Magdalena
APPLICANT: Hanke, Tomas
APPLICANT: Hanke, Tomas
APPLICANT: Hanke, Tomas
APPLICANT: Hanchard, Tomas
APPLICANT: Hanchard, Tomas
APPLICANT: Mainth, Geoffrey L.
APPLICANT: Matchard, 100-000
TITLE OF INVENTION: Witch Generate A CD8 T Cell Immune Response
TITLE OF INVENTION: Witch Generate A CD8 T Cell Immune Response
TITLE OF INVENTION WIMBER: US/10/686,943
CURRENT APPLICATION NUMBER: US/09/454,204
PRIOR APPLICATION NUMBER: PCT/GB98/01681
PRIOR PLING DATE: 1999-06-09
PRIOR FILING DATE: 1999-06-09
PRIOR FILING DATE: 1999-06-09
PRIOR PILING DATE: 1999-06-09
PRIOR PILING DATE: 1999-06-09
NUMBER OF SEQ ID NOS: 78
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 73
LENGTH: 9
                                          ;;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; OTHER INFORMATION: CTL Peptide Epitope of P. falciparum TRAP
US-10-686-943-73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29.1%; Score 30; DB 16; Length 9; 62.5%; Pred. No. 1.6e+06; tive 2; Mismatches 1; Indels
62.5%; Pred. No. 1.6e+06;
tive 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          i, Indels
                                                                                                                                                                                                                                                                                                                                                                    ; Sequence 73, Application US/106B6943; Publication No. US20040213799A1; GENERAL INFORMATION:
Best Local Similarity 62.5
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity 62.5
Matches 5; Conservative
                                                                                                            5 VTVAFNOF 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5 VTVAFNQF 12
                                                                                                                                                   : ||||:|
1 INVAFNRF 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              : ||||:|
1 INVAFNRF 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; TYPE: PRT
; ORGANISM: Human
US-10-282-960-74
                                                                                                                                                                                                                                                                                                                                     US-10-686-943-73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 14
US-10-282-960-74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 74
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
```

THIS PAGE BLANK (USPTO)

Tue

```
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MA
USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-467-023-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 94, Appl Sequence 97, Appl Sequence 15, Appl Sequence 127, Appl Sequence 227, Appl Sequence 227, Appl Sequence 236, Appl Sequence 121, Appl Sequence 121, Appl Sequence 121, Appl Sequence 25, Appl Sequence 257, Appl Sequence 256, Appl Squence 251, App
                                                                                                                                                                     June 20, 2005, 14:04:11; Search time 16.15 Seconds (without alignments) 92.445 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No. is the number of results predicted by chance to have a , score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Issued Patents AA:*

(cgn2_6/ptodata/1/iaa/5A_COMB.pep:*

(cgn2_6/ptodata/1/iaa/5B_COMB.pep:*

(cgn2_6/ptodata/1/iaa/6B_COMB.pep:*

(cgn2_6/ptodata/1/iaa/6B_COMB.pep:*

(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*

(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*

(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-467-023-47
US-09-142-524D-9
US-09-142-524D-158
US-08-467-023-236
US-08-467-023-236
US-08-467-023-236
US-08-467-023-121
US-08-467-023-122
US-08-467-023-125
US-08-467-023-255
US-08-467-023-253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-467-023-247
US-08-467-023-245
US-08-467-023-243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                 protein search, using sw model
                                                                                                                                                                                                                                                                                                                        103
1 KSMKVTVAFNQFGPNAGQRM 20
                                                                                                                                                                                                                                                                                                                                                                                                              BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                         US-09-202-464-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                           Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                 Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OM protein
                                                                                                                                                                                                                                                                                                                                                      Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Database
                                                                                                                                                                           Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Result
```

ALIGNMENTS

```
Sequence 47, Application US/08467023

Patent No. 6090386

GENERAL INCORMATION:

APPLICANT: Giffeth, Irwin J.;
APPLICANT: Garman, Richard D;
APPLICANT: Exley Siu-mei H.;
APPLICANT: Exley Mark A.;
APPLICANT: Waltham
STREET: 610 Lincoln St CTTY: Waltham
STATE: 610 Lincoln St CTTY: Waltham
STATE: 10.2154
COMPUTER READABLE FORM:
MEDIUM TYBE: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARR: BREET PROPHY:
APPLICATION NUMBER: US/08/467, 023
FILING DATE: Unne 6, 1995
CLASSIFICATION NUMBER: 08/350,225
ATTONNEY/AGENT INFORMATION:
TELEPAN: Gil) 227-740
INFORMATION FREE EX Remillard
REGISTRATION NUMBER: 026.6

REGISTRATION NUMBER: 026.6

REGISTRATION NUMBER: 036.7-7940
INFORMATION FREE SQUENCE: GIN) 227-750
INFORMATION FREE SQUENCE: Main acids
TELEFAN: Gil) 227-750
INFORMATION FYEE: Main acids
TELEFAN: Gil) 227-750
INFORMATION TYPE: Main acids
TELEFAN: Gil) 227-750
INFORMATION TYPE: Main acids
TELEFAN: Gil) 27-750
INFORMATION TYPE: Main acids
TELEFAN: Gil) 27-750
INFORMATION TYPE: Main acids
TELEFAN: Gil) 27-750
INFORMATION TYPE: Main acids
TELEFAN: Hinder Amin acids
TELEFAN: H
```

```
APPLICANT: Iwama, Akkko
APPLICANT: Iwama, Akkko
APPLICANT: Kino, Kohauke
TILE CANT: Kino, Kohauke
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                          .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Follock, Joanne;
APPLICANT: Bond, Unlian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Exauer, Andrew;
APPLICANT: Exauer, Andrew;
APPLICANT: Exaley, Mark A.;
APPLICANT: Exaley, Mark A.;
APPLICANT: Exaley, Mark A.;
APPLICANT: Taley Mark A.;
APPLICANT: Taley Mark A.;
APPLICANT: Taley Mark A.;
APPLICANT: Exaley, Mark A.;
APPLICANT: Exa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 15;
                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc. STREET: 610 Lincoln St
CITY: Waltham
                                                       ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 75.7%; Score 78; Dk 4; Lé
Best Local Similarity 100.0%; Pred. No. 2.4e-07;
Matches 15; Conservative 0; Mismatches 0;
                          Pred. No. 2.4e-07;
                                                                                                                                                                                                                                                                                                                                  Sequence 158, Application US/09142524D
Patent No. 6719976
GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Rume, Akinori
APPLICANT: Dairiki, Kazuo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 227, Application US/08467023 Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCATION: (1)...(15)

OTHER INFORMATION: Figure 7, Row a
US-09-142-524D-158
100.0%; Pre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 158
LENGTH: 15
                                                                                                                                                         1 KSMKVTVAFNQFGPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 KSMKVTVAFNQFGPN 15
                                                                                                                        1 KSMKVTVAFNQFGPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 KSMKVTVAFNQFGPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compati
                          Best Local Similarity 100. Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                               US-09-142-524D-158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-467-023-227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 5
                                                                                                                        ઠે
                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 57.7 Application US/09142524D

Sequence 57.7 Application US/09142524D

Patent No. 6719976

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Name, Akinori

PILE REFERENCE: SPO-103

CURRENT FILING DATE: 1998-09-09

PRIOR PILING DATE: 1997-03-10

NUMBER OF SEQ ID NOS: 174

SOFUTANE: PatentIn version 3.1

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Dairiki, Kazuo
APPLICANT: Hamam, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ;
0
                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       75.7%; Score 78; DB 4; Length 15; 100.0%; Pred. No. 2.4e-07; tive 0; Mismatches 0; Indels
                                                                                    96.1%; Score 99; DB 3; Length 20; 95.0%; Pred. No. 5.8e-11; Live 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 4; Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILE REPERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARKE: Patentin version 3.1
SOFTWARKE: Patentin version 3.1
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: MISC_FEATURE

LOCATION: (1)...(15)

1 DOTHER INFORMATION: Cryj1 peptide, Figure 1,

US-09-142-524D-57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             75.7%; Score 78;
                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 9, Application US/09142524D Patent No. 6719976
                                                                                                                                                                                                                    1 KSMKVTVAFNQFGPNAGQRM 20
                                                                                                                                                                                                                                                           1 KSMKVTVAFNQFGPNCGQRM 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ) ORGANISM: Cryptomeria japonica
US-09-142-524D-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 KSMKVTVAFNOFGPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 KSMKVTVAFNQFGPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 100.0
Matches 15; Conservative
                                                                                 Query Match
Best Local Similarity 95.03
Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-142-524D-57
                                                                                                                                                                                                                                                                                                                                                                                                       US-09-142-524D-9
                          US-08-467-023-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        엽
                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
```

```
Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                Sequence 230, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
                TELEFAX: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR EGG ID NO: 236:
SEQUENCE CHARACTERISTICS:
LENGTH: 19 amino acids
TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Griffeth, Irwin J.;
Pollock, Joanne;
Bond, Julian F.;
                                                                                                                                                                                                          Query Match 75.7%; Sc
Best Local Similarity 100.0%; P
Matches 15; Conservative 0;
     TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                   3 KSMKVTVAFNQFGPN 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20 amino acide
                                                                                                                                        peptide
internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ) MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 USA
                                                                                                                                     MOLECULE TYPE:

FRAGMENT TYPE:

US-08-467-023-236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY: US
ZIP: 02154
                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen NUMBER OF SEQUENCES: 261
CORRESPONDENCE AMDRESS:
ADDRESPONDENCE AMDRESS:
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 0.2154
                                                 Score 78; DB 3; Length 19;
Pred. No. 3.1e-07;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: Patentin: FC-DOS/NS-DOS
SOFTWARE: Patentin: FC-DOS/NS-DOS
SOFTWARE: Patentin: RC-DOS/NS-DOS
SOFTWARE: Patentin Number: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION 1424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
RECISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
PLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 236, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffeth, Irwin J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pollock, Joanne,
Bond, Julian F.;
Garman, Richard D;
Kuo, Mei-Chang;
Yeung, Siu-mei H.;
Brauer, Andrew;
Exley, Mark A.;
Powers, Steven P.
                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
75.7%; Sco
Best Local Similarity 100.0%; P;
Matches 15; Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 KSMKVTVAFNOFGPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       KSMKVTVAFNOFGPN 17
                                                                                                                                                                                                                                                                                                                                            MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                 US-08-467-023-227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
```

```
0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Brung, Siu-mei H.;
APPLICANT: Brung, Andrew;
APPLICANT: Brung, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Browers, Steven P.
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immungic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
SOFTWARE PAPELICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: Une 6, 1995
CLASSIFICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING APPLICATION DATA:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Jane B. Remillard
REGIGTRATION NUMBER: 38,872
REGIGTRATION NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECHOUNICATION INFORMATION:
TELEPRAX: (617) 227-7400
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
```

ઠે g

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Bond, Unlian F.,
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang,
APPLICANT: Weng, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Bowers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          B: Immulogic Pharmaceutical Corporation, Inc. 610 Lincoln St
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFFCATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 38,872
FELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 121:
SEQUENCE CHARACTERISTICS:
LENGTH: 19 amino acids
                                                                                                                                                                                                                                                                                                                                 025.6 USD2 (IMI-028CPD2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSEM: PC-DOS/MS-DOS
SOFFWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 74; DB 3; I
Pred. No. 1.6e-06;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORING PATE: Remillard
REGISTRATION NUMBER: 38,872
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 122, Application US/08467023; Patent No. 6090386; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Griffeth, Irwin J.;
Pollock, Joanne;
Bond, Julian F.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
71.8%;
Best Local Similarity 93.3%;
Matches 14; Conservative C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 KSMKVTVAFNQFGPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3 KSMKATVAFNOFGPN 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STREET: 610 Li
CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-467-023-122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-467-023-121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STATE: M. COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR PILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOOFWARE: Patentin version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                              ö
                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                              ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Griffeth, Irwin J.;
APPLICANT: Bollock, Joanne;
APPLICANT: Bollock, Joanne;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: APPLICANT: Braver, Andrew;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
                                       Query Match 75.7%; Score 78; DB 3; Length 20; Best Local Similarity 100.0%; Pred. No. 3.3e-07; Matches 15; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 73.8%; Score 76; DB 4; Length 15; Best Local Similarity 93.3%; Pred. No. 5.4e-07; Matches 14; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; NAME/KEY: MISC_FEATURE
; LOCATION: (1)...(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 44
US-09-142-524D-58
                                                                                                                                                                                                                                                                                                        Sequence 58, Application US/09142524D Patent No. 6719976 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 121, Application US/08467023
Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Cryptomeria japonica
                                                                                                                                           1 KSMKVTVAFNQFGPN 15
                                                                                                                                                                       4 KSMKVTVAFNOFGPN 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6 TVAFNOFGPNAGORM 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 TVAFNQFGPNCGQRM 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     02154
                                                                                                                                                                                                                                                                                       US-09-142-524D-58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-08-467-023-121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: W
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 58
LENGTH: 15
```

ઠ ద

ô

Gaps

ó

```
APPLICANT: Griffen, Irwin J.;
APPLICANT: Griffen, Irwin J.;
APPLICANT: Bond, Julian F.;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang,
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From ITILE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSED: Immulogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM:
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
MAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 38,872
RELECHANICATION INFORMATION:
TELECHANDICATION INFORMATION:
TELECHANTION FOR SEQ ID NO: 257:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 anino acids
                               Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              67.0%; Score 69; DB 3; Length 17; 93.3%; Pred. No. 1.1e-05; tive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 17;
                         Query Match 68.0%; Score 70; DB 3; I
Best Local Similarity 86.7%; Pred. No. 8.3e-06;
Matches 13; Conservative 0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                             Sequence 257, Application US/08467023; Patent No. 6090386; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 KSMKVTVAFNQFGPN 15
                                                                                                                                                                                          3 KSMKATAAFNOFGPN 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3 KSMKVTVAFNQFGNN 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 93.3
Matches 14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ) MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           02154
                                                                                                                                                                                                                                                                                                   US-08-467-023-257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 13
US-08-467-023-235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY:
                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                     원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 126, Application US/08467023

Sequence 126, Application US/08467023

Patent No. 6090386

GENERAL INFORMATION:
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Woung, Slu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Coverse, Steven P.
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDERGE ADDRESS:
Annoncore
                                                                                                                                                                                                                                                                                                                                                      71.8%; Score 74; DB 3; Length 19; 93.3%; Pred. No. 1.6e-06; tive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:

MEDIUM TYPE: Flopy disk

COMPUTER: Flopy disk
COMPTER: IBM PC COMPATIBLE
COMPATION: IBM PC COMPATIBLE
CORFIGNED: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,972
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMONICATION INFORMATION:
TELECOMMONICATION INFORMATION:
TELECOMMONICATION INFORMATION:
TELECOMMONICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
                      TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEPAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 122:
SEQUENCE CHARACTERISTICS:
LENGTH: 19 aming acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION FOR SEQ ID NO: 12 SEQUENCE CHARACTERISTICS: LENGTH: 19 amino acids TYPE: amino acids TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 KSMKVTVAFNQFGPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3 KSMKVTAAFNQFGPN 17
                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 93.3
Matches 14; Conservative
                                                                                                                                                                                     TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STATE: MA
COUNTRY: U
                                                                                                                                                                                                                                                                                                   US-08-467-023-122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-08-467-023-126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-08-467-023-126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
```

ö

```
Sequence 256, Application US/08467023
; Sequence 256, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
    APPLICANT: Griffeth, Irwin J.;
    APPLICANT: Garman, Richard D;
    APPLICANT: Bond, Julian F.;
    APPLICANT: Kuo, Mai.-Chang,
    APPLICANT: Kuo, Mai.-Chang,
    APPLICANT: Saruer, Andrew;
    APPLICANT: Staven P.
    APPLICANT: Exley, Mark A.;
    APPLICANT: Brauer, Andrew;
    APPLICANT: Dewers, Steven P.
    TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
    NUMBER OF SEQUENCES: 261
    NUMBER OF SEQUENCES: 261
    NUMBER OF SEQUENCES: 261
               TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS: ADDRESS: STREEF: ImmuLogic Pharmaceutical Corporation, Inc. STREET: 610 Lincoln St CITY: Walthan CITY: Wa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             B: ImmuLogic Pharmaceutical Corporation, Inc. 610 Lincoln St
                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Eloppy disk
COMPUTER: Eloppy disk
COMPUTER: Eloppy disk
COMPUTER: Eloppy disk
COMPUTER: Elb PC COMPATION
SOFTWARE: PATENTIN BATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION WHEER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  025.6 USD2 (IMI-028CPD2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       63.1%; Score 65; DB 3; Le1
100.0%; Pred. No. 5e-05;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REPERENCE/DOCKET NUMBER: 025
TELECOMMUNICATION: TELEPHONE: (617) 227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: (617) 227-5941 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 KSMKVTVAFNQFG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2 KSMKVTVAFNOFG 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 15 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 63.1
Best Local Similarity 100.
Matches 13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-467-023-255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Waltham
                                                                                                                                                                                                                                                                                                                                  USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            USA
                                                                                                                                                                                                                                                                                                                                                                 ZIP: 02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-467-023-256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                                                                                                                                  COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Bollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Garman, Richard D;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Extley, Mark M.;
ANDMERS OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCE: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: MA
COUNTY: Waltham
STRATE: MA
COUNTY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 63.1%; Score 65; DB 3; Length 13; Best Local Similarity 100.0%; Pred. No. 4.2e-05; Matches 13; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: Floppy disk
COMPUTER: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MM-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION ATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REJECHNOTE (617) 227-7400
TELEPRAN: (617) 227-7400
TELEPRAN: (617) 227-7401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 255, Application US/08467023 Patent No. 6090386 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Griffeth, Irwin J.;
Pollock, Joanne;
Bond, Julian F.;
Bond, Julian F.;
Kuo, Mei-Chang;
Yeung, Siu-mei H.;
Brauer, Andrew;
Exley, Mark A.;
Powers, Steven P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 KSMKVTVAFNOFG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-467-023-235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-467-023-255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
```

Gaps

; 0

```
...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 63.1%; Score 65; DB 3; Length 15; Best Local Similarity 100.0%; Pred. No. 5e-05; Matches 13; Conservative 0; Mismatches 0; Indels
COMPUTER: IBM PC compatible

COMFRATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,023

FILING DATE: Unne 6, 1995

CLASSIFICATION: 424

PRIOR APPLICATION: 424

PRIOR APPLICATION: 424

APPLICATION NUMBER: 08/350,225

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

REGISTRATION NUMBER: 025.6 USD2 (IMI-028CPD2)

REGISTRATION NUMBER: 025.6

TELECOMMUNICATION INFORMATION:

TELEFAX: (617) 227-7400

TEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 KSMKVTVAFNQFG 13
```

Search completed: June 20, 2005, 14:22:21 Job time : 16.15 secs

2 KSMKVTVAFNQFG 14

셤 ò

THIS PAGE BLANK (USPTO)

```
June 20, 2005, 14:14:01; Search time 53.45 Seconds (without alignments) 143.678 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cgn2_6/ptodata/2/pubpaa/USO7 PUBCOMB.pep: *
| Cgn2_6/ptodata/2/pubpaa/USO7 FUBCOMB.pep: *
| Cgn2_6/ptodata/2/pubpaa/USO6 FUBCOMB.pep: *
| Cgn2_6/ptodata/2/pubpaa/USO6 FUBCOMB.pep: *
| Cgn2_6/ptodata/2/pubpaa/USO6 FUBCOMB.pep: *
| Cgn2_6/ptodata/2/pubpaa/USO8 FUBCOMB.pep: *
| Cgn2_6/ptodata/2/pubpaa/USO8 FUBCOMB.pep: *
| Cgn2_6/ptodata/2/pubpaa/USO8 FUBCOMB.pep: *
| Cgn2_6/ptodata/2/pubpaa/USO8 FUBCOMB.pep: *
| Cgn2_6/ptodata/2/pubpaa/USO9 FUBCOMB.pep: *
| Cgn2_6/ptodata/2/pubpaa/USO0 FUBCOMB.pep: *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       332641
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1714042 segs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Published_Applications_AA:*
                                                                                                                                                                                OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 QFGPNAGQRMPRARYGLIHV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-202-464-25
109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Minimum DB seq length: 0
Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Database
                                                                                                                                                                                                                                                                             Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description	Sequence 59, Appl	Sequence 60, Appl	Sequence 61, Appl	Sequence 58, Appl	Sequence 1106, Ap	Sequence 397, App	Seguence 16, Appl	Sequence 23, Appl	Sequence 16, Appl	Sequence 45, Appl	Sequence 23. Appl
	ΙD	US-10-354-240-59	US-10-354-240-60	US-10-354-240-61	US-10-354-240-58	US-10-225-567A-1106	US-09-834-765-397	US-10-147-447-16	US-10-300-072-23	US-10-456-949-16	US-10-456-947-45	US-10-718-495-23
	8	14	14	14	14	14	ο.	14	14	15	15	16
	Query Match Length DB ID	15	15	15	15	19	10	20	20	20	20	20
de	Query Match	72.5	67.9	48.6	46.8	32.1	30.3	30.3	30.3	30.3	30.3	30.3
	Score	79	74	53	51	35	33	33	33	33	33	33
	Result No.	-	~	m	4	S	9	7	œ	6	10	11

Sequence 23, Appl Sequence 196, App Sequence 196, App Sequence 21, Appli Sequence 21, Appli Sequence 9, Appli	8 47,7	Sequence 8, Appli Sequence 8, Appli Sequence 8, Appli Sequence 8, Appli Sequence 8, Appli Sequence 8, Appli	1930, 1930, 1941 1990, 1	34 4 4 6 0 1 3 4 4 6 6 0 4 4 6 6 0 4 4 6 6 0 4 4 6 6 0 4 4 6 6 0 4 6 6 0 4 6 6 6 0 4 6 6 6 6
16 US-10-717-984-23 10 US-09-852-910-196 15 US-10-411-354A-196 17 US-10-245-141-4 11 US-09-739-466C-21 14 US-10-354-240-9	US-110-354 US-10-354 US-10-057 US-10-212 US-10-319 US-20-776-	14 US-10-381-113-8 14 US-10-381-582-8 14 US-10-384-451-8 15 US-10-371-218A-8 15 US-10-371-218A-8 15 US-10-785-116-8	US-10 US-10 US-09- US-09 US-09 US-10	US-10-900-230-19 US-10-487-886-11 US-09-864-761-344 US-10-808-187-57 US-09-791-524-13 US-10-404-679-60 US-10-404-922-1 US-08-424-550B-44
111 111 113 115	118 118 18 10 10 10	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6699999	10 15 11 11 11 12
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	30 30 30 30 27. 20 27.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25.00
нанана	1 11 10 10 10 10	N N N N N N M	. നെ ന ന ന ന ന ്	ता ता च च च च चे चे

ALIGNMENTS

RESULT 1 US-10-354-240-59 US-10-354-240-59 Sequence 59, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION: GENERAL INFORMATION: APPLICANT: Sone, Toshio APPLICANT: Name, Akinori APPLICANT: Na
US-10-354-240-59 Query Match Best Local Similarity 93.3%; Pred. No. 1.3e-05; Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 1997-03-10
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION

APPLICANT: LifeSpan Biosciences

APPLICANT: Brown, Joseph P.

APPLICANT: Brown, Joseph P.

APPLICANT: Brumer, Gaenna C.

APPLICANT: Roush, Christine L.

TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
FILE REFERENCE: 1920-4-4

CURRENT APPLICATION NUMBER: US/10/225,567A

CURRENT APPLICATION NUMBER: 60/257,144

PRIOR APPLICATION NUMBER: 60/257,144

NUMBER OF SEQ ID NOS: 2292

SOFTWARE: Patentin version 3.1
                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                             ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 14; Length 19;
                  DB 14; Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; LOCATION: (1). T(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 44
US-10-354-240-58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 51; DB 14;
Pred. No. 0.4;
                                                                1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Mismatches
                  Score 53;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                32.1%; Score 35;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; Sequence 1106, Application US/10225567A; Publication No. US20030113798A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                           Sequence 58, Application US/10354240; Publication No. US20030185847A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 58
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 90.0%;
Matches 9; Conservative
                  48.6%;
                  Query Match
Best Local Similarity 90.0
Matches 9; Conservative
                                                                                                                                  1 OFGPNAGORM 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6 QFGPNCGQRM 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-225-567A-1106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-225-567A-1106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 1106
LENGTH: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                           ઠે
                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 61, Application US/10354240

Sequence 61, Application US/10354240

Publication No. US20030185847A1

GENERAL INFORMATION:

APPLICANT: Rume, Akinori

APPLICANT: Rume, Akinori

APPLICANT: Iwama, Akinori

APPLICANT: Bairiki, Kazuo

APPLICANT: Bairiki, Kazuo

FILE REFERENCE: SPO-103D1

CURRENT APPLICATION NUMBER: US/10/354,240

CURRENT FILING DATE: 1997-03-10

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: PatentIn version 3.1

SEQ ID NO 61

LEMETH: 15

LEMETH: 15

LEMETH: 15
                                                                                                                                                                                                                                      APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Ivama, Akinori
APPLICANT: Ivama, Akiko
APPLICANTION: PEptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354,240
PRIOR PILING DATE: 1997-03-10
PRIOR APPLICATION NUMBER: US 09/142,524
PRIOR FILING DATE: 1998-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 60
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: MISC_FEATURE

COCATION: (1)...(15)

OTHER INFORMATION: Cryjl peptide, Figure 1, Row 46

MS-10-354-240-60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCATION: (1). (15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 47
                                                                                                                                                  ; Sequence 60, Application US/10354240; Publication No. US20030185847A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           67.9%;
92.9%;
QFGPNAGQRMPRARY 15
                                      OFGPNCGORMPRARY 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7 GORMPRARYGLIHV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity 92.9
Matches 13; Conservative
                                                                                                                                US-10-354-240-60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
ð
                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                       GENERAL INFURGATION:
GENERAL INFURGATION:
APPLICANT: Hoan Yang
APPLICANT: Hoan Yang
APPLICANT: Hoan Yang
GENERAL Hoan Yang
GENERAL HICHAIL P. FIAN
TITLE OF INVENTION: USE OF HAGB FRAGMENTS AS ANTI-FLAMMATORY
TITLE OF INVENTION: AGENTS
FILE REFERENCE: 3268.1001-005
CURRENT APPLICATION NUMBER: US/10/300,072
CURRENT FILING DATE: 2002-11-20
FRIOR FILING DATE: 2002-05-15
PRIOR FILING DATE: 2001-05-15
PRIOR FILING DATE: 2001-05-15
NUMBER OF SEQ ID NOS: 58
SOFTWARE: FASESEQ FOR Windows Version 4.0
SEQ ID NO 23
LENGTH. 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         30.3%; Score 33; DB 14; Length 20; 60.0%; Pred. No. 4.1e+02; Live 2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30.3%; Score 33; DB 15; L
60.0%; Pred. No. 4.1e+02;
tive 2; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: Kevin J. Tracey
APPLICANT: Huan Yang
TITLE OF INVENTION: USE OF HMG FRAGMENTS AS
TITLE OF INVENTION: USE OF HMG FRAGMENTS AS
TITLE OF INVENTION: USE OF HMG FRAGMENTS
FILE REFERENCE: 3268.1001-006
CURRENT APPLICATION NUMBER: US/10/456,949
CURRENT FILING DATE: 2003-06-06
PRIOR APPLICATION NUMBER: 60/291,034
PRIOR FILING DATE: 2002-05-15
PRIOR FILING DATE: 2001-05-15
PRIOR FILING DATE: 2001-05-15
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 16
LENGTH: 20
TYPE: PRT
CRGANISM: Homo Sapien
US-10-456-949-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 16, Application US/10456949
Publication No. US20040005316A1
GENERAL INFORMATION:
                                                                                             US-10-300-072-23
; Sequence 23, Application US/10300072
; Publication No. US/0030144201A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 30.3
Best Local Similarity 60.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 30.3
Best Local Similarity 60.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4 PNAGQRMPRA 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ||| :|:| |
4 PNAPKRLPSA 13
       4 PNAPKRLPSA 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4 PNAGORMPRA 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4 PNAPKRLPSA 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-300-072-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JS-10-456-949-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                      Sequence 397, Application US/09834765

Batent No. US20020055478A1

GENERAL INFORMATION:
APPLICANT: Mary Faris
APPLICANT: Arthur B. Raitano
APPLICANT: Arthur B. Raitano
APPLICANT: Arthur B. Raitano
APPLICANT: Aya Jakobovite
ITILE OF INVENTION: GTP-BINDING PROTEIN USEFUL IN TREATMENT
ITILE OF INVENTION: GTP-BINDING PROTEIN USEFUL IN TREATMENT
ITILE OF INVENTION: GTP-BINDING PROTEIN USEFUL IN TREATMENT
ITILE OF INVENTION: GTP-BINDING PROTEIN
CURRENT APPLICANTON NUMBER: US/09/834,765
CURRENT PILING DATE: 2001-09-21

PRIOR FILING DATE: 2000-04-12

PRIOR FILING DATE: 2000-04-12

NUMBER OF SEQ ID NOS: 770

SOFTWARE: FastSEQ for Windows Version 4.0

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 397

LENGTH: 10

TYPE: PRT

ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 30.3%; Score 33; DB 14; Length 20; Best Local Similarity 60.0%; Pred. No. 4.18+02; Matches 5; Conservative 2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30.3%; Score 33; DB 9; Length 10; 60.0%; Pred. No. 2e+02; tive 0; Mismatches 4; Indels
                          1; Indels
    Pred. No. 1.9e+02;
4; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-147-447-16

Sequence 16, Application US/1014747

Publication No. US20030060410A1

GENERAL INFORMATION:
APPLICANT: Tracey, Kevin J.
APPLICANT: Yang, Huan
TITLE OF INVENTION: Use of HWG Fragments as
TITLE OF INVENTION: Use of HWG Fragments
TITLE OF INVENTION: Anti-Inflammatory Agents
FILE REFERENCE: 3268.1001-001
CURRENT FILING DATE: 2002-08-16
CURRENT FILING DATE: 2002-08-15
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FRASESE for Windows Version 4.0
SEQ ID NO 16
LENGTH: 20
Best Local Similarity 50.0%;
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 60.0
Matches 6; Conservative
                                                                       4 PNAGQRMPRA 13
                                                                                               | :||::||:
8 PGSGQQLPRS 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3 GPNAGQRMPR 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 GPPGGSRWPR 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
CRGANISM: Homo sapiens
US-10-147-447-16
                                                                                                                                                                                                           US-09-834-765-397
                                                                                                           유
                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
```

ö

RESULT 10 US-10-456-947-45

4 PNAGORMPRA 13

```
ò
                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                      APPLICANT: Kevin J. Tracey
APPLICANT: Huan Yang
TITLE OF INVENTION: INHIBITORS OF THE INTERACTION BETWEEN
TITLE OF INVENTION: HMGB POLYPEPTIDES AND TOLL-LIKE RECEPTOR 2 AS
TITLE OF INVENTION: AMTI-INFLAWMATORY AGENTS
FILE REFERENCE: 3268.1001-007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30.3%; Score 33; DB 16; Length 20; 60.0%; Pred. No. 4.10+02; tive 2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 33; DB 15; Length 20;
Pred. No. 4.1e+02;
2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 23, Application US/10718495
Publication No. US20040141948A1
GENERAL INFORMATION: US20040141948A1
APPLICANT: O'Keefe, Theresa L.
TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
FILE PEFERENCE: 3258.1009-001
CURRENT APPLICATION NUMBER: US/10/718,495
CURRENT PILING DATE: 2003-11-12
PRIOR APPLICATION NUMBER: 60/427,841
PRIOR APPLICATION NUMBER: 60/427,841
PRIOR FILING DATE: 2003-11-20
NUMBER OF SEQ ID NOS: 58
SOFTWARE: FastSEQ for Windows Version 4.0
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 23, Application US/10717984
Publication No. US20040156851A1
GENERAL INPORMATION:
APPLICANT: Newman, Walter
TITLE OF INVENTION: HMGB1 COMBINATION THERAPIES
FILE REFERENCE: 3258.1008-001
CURRENT APPLICATION NUMBER: US/10/717,984
CURRENT FILING DATE: 2003-11-20
PRIOR APPLICATION NUMBER: 60/427,846
                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/10/456,947
CURRENT FILING DATE: 2003-06-06
PRIOR APPLICATION NUMBER: 10/147,447
PRIOR FILING DATE: 2002-05-15
PRIOR PILING DATE: 2001-05-15
NUMBER OF SEQ ID NOS: 46
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 45
LENGTH: 20
Sequence 45, Application US/10456947
Publication No. US20040053841A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | | | : | : | |
4 PNAPKRLPSA 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4 PNAPKRLPSA 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4 PNAGORMPRA 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4 PNAGORMPRA 13
                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Homo Sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       , ORGANISM: Homo sapiens
US-10-718-495-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-456-947-45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 11
US-10-718-495-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-717-984-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
```

```
GENERAL INFOGRATION.

GENERAL INFOGRATION.

APPLICANT: Hamm, Heidi
APPLICANT: Gilchrist, Annette
TITLE OF INVENTION: Method For Identifying Inhibitors of G Protein Coupled Receptor S.

FILE REFERENCE: 2661-101
CURRENT APPLICATION NUMBER: US 60/275,910
CURRENT FILING DATE: 2001-09-18
PRIOR FILING DATE: 2001-03-14
NUMBER OF SEQ ID NOS: 271
SOFFWARE: Patentin version 3.0
SEQ ID NO 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 14

US-10-411-336A-196

Sequence 196, Application US/10411336A

Publication No. US2004001858A1

GENERAL INFORMATION:

APPLICANT: GILCHRIST, ANNETTE

APPLICANT: HAMM, HEIDI

ITILE OF INVENTION: SIGNALING

FILE REFERENCE: 2661-102

CURRENT APPLICATION NUMBER: US/10/411,336A

CURRENT FILING DATE: 2003-04-11

PRIOR PELLOATION NUMBER: US 09/852910

PRIOR PELLOATION NUMBER: US 60/275472

PRIOR PELLOATION NUMBER: US 60/275472

PRIOR FILING DATE: 2001-03-14

NUMBER OF SEQ ID NOS: 273

SOFTWARE: PATENTIN VORTION 3.2

SEC ID NO 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ;
0
                                                                                                                                                                                                          30.3%; Score 33; DB 16; Length 20; 60.0%; Pred. No. 4.1e+02; ive 2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 31; DB 10; Length 11;
Pred. No. 4.7e+02;
2; Mismatches 3; Indels
PRIOR FILING DATE: 2002-11-20
NUMBER OF SEQ ID NOS: 58
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 23
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: misc_feature

LOCATION: (1)...(11)

OTHER INDEMATION: Gs library peptide

US-09-852-910-196
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 196, Application US/09852910; Publication No. US20030096297A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 54.5
Matches 6; Conservative
                                                                                                                                                                                                                                                         6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8 ORMPRARYGLI 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 ORMPLROYELL 11
                                                                                                                                                                                                                                                                                                                                ||| :|:| |
4 PNAPKRLPSA 13
                                                                                                                                                                                                                                                                                                      4 PNAGQRMPRA 13
                                                                                                                   TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                             Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-852-910-196
                                                                                                                                                                US-10-717-984-23
                                                                                                                                                                                                             Query Match
```

```
RESULT 15

US-10-245-141-4

i Sequence 4, Application US/10245141

i Publication No. US2050106755A1

i GENERAL INFORMATION:

APPLICANT: Zahradnik, Richard J.

APPLICANT: Lavigne, Jeffrey

APPLICANT: Lavigne, Jeffrey

TITLE OF INVENTION: Immunoassays, Assay Methods, Antibodies and Method of Creating

TITLE OF INVENTION: Immunoassays, Assay Methods, Antibodies and Method of Creating

TITLE OF INVENTION: MARINER: US/10/245,141

CURRENT FILING DATE: 2002-09-17

NUMBER OF SEQ ID NOS: 31

SOFTWARE: PatentIn version 3.3

SEQ ID NO 4

LENGTH: 18
                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                       0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Gaps
                                                                                                                             Query Match

28.4%; Score 31; DB 15; Length 11;
Best Local Similarity 54.5%; Pred. No. 4.7e+02;
Matches 6; Conservative 2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 28.4%; Score 31; DB 17; Length 18; Best Local Similarity 41.2%; Pred. No. 7.8e+02; Matches 7; Conservative 3; Mismatches 7; Indels
) ORGANISM: Artificial Sequence
) FEATURE:
) OTHER INFORMATION: Gs library peptide
US-10-411-336A-196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Human FGF-23 residues 25-42
                                                                                                                                                                                                                                                                |||| :| |:
1 QRMPLRQYELL 11
                                                                                                                                                                                                                                   8 QRMPRARYGLI 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-245-141-4
                                                                                                                                                                                                                                                                             ρp
                                                                                                                                                                                                                                   ð
```

Search completed: June 20, 2005, 15:55:17 Job time : 53.45 secs

4 PNAGQRMPRARYGLIHV 20
|||| : ||||:
2 PNASPLLGSSWGGLIHL 18

දු ද

THIS PAGE BLANK (USP)U)

```
PRIOR APPLICATION DATA:

APPLICATION DATA:

APPLICATION NUMBER: 08/350,225

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remillard

REGISTRATION NUMBER: 025.6 USD2 (IMI-028CPD2)

TELECHOME: (617) 227-7400

TELEPRA: (617) 227-7400

TELEPRA: (617) 227-5941

INFORMATION FOR SEQ ID NO: 48:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 amino acids

TYPE: amino acids

TYPE: amino acids

TYPE: penino acids

TYPE: mino acids

TYPE: penino acids

TYPE: mino acids

TYPE: mino acids

TYPE: mino acids

TYPE: mino acids

TYPE: penino acids

TYPE: mino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 61, Appl
Sequence 58, Appl
Sequence 58, Appl
Sequence 258, Appl
Sequence 10, Appl
Sequence 10, Appl
Sequence 64, Appl
Sequence 64, Appl
Sequence 57, Appl
Sequence 121, Appl
Sequence 121, Appl
Sequence 121, Appl
Sequence 122, Appl
Sequence 227, Appl
Sequence 230, Appl
                                                                                                                                   June 20, 2005, 14:04:11; Search time 16.15 Seconds (without alignments) 92.445 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 48,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
/cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
/cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
/cgn2_6/ptodata/1/iaa/Re_COMB.pep:*
/cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
/cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-467-023-48
US-09-142-5240-59
US-09-142-5240-60
US-09-142-5240-61
US-08-467-023-49
US-08-467-023-49
US-08-467-023-47
US-08-467-023-58
US-08-130-287-10
US-08-130-287-10
US-08-130-287-10
US-08-130-287-10
US-08-144-5240-9
US-09-142-5240-9
US-09-142-5240-158
US-09-142-5240-158
US-08-467-023-122
US-08-467-023-122
US-08-467-023-123
US-08-467-023-237
US-08-467-023-237
US-08-467-023-236
US-08-417-608A-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                      513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                           - protein search, using sw model
                                                                                                                                                                                                                                                                                  1 QFGPNAGQRMPRARYGLIHV 20
                                                                                                                                                                                                                                                                                                                                 BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Issued Patents AA:*
                                                                                                                                                                                                                                      US-09-202-464-25
109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    seq length: 0
seq length: 20
                                                                                                                                                                                                                                        Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                    Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Minimum DB
Maximum DB
                                                                                           OM protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Database :
                                                                                                                                                                                                                                                                                       Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                         Searched:
                                                                                                                                          Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Result
No.
```

Sequence Sequence Sequence S

Sequence

Sequence 8, Appli Sequence 1, Appli Sequence 21, Appli Sequence 19, App Sequence 25, Appli Sequence 9, Appli Sequence 9, Appli Sequence 8, Appli Sequence 446, App Sequence 446, App Sequence 24, Appl Sequence 24, Appl Sequence 29, Appl Sequence 8, Appl	es From Inc.
US-09-988-113-8 US-09-181-36-1 US-09-22-2-86-21 US-09-996-288-199 US-09-107-684B-19 US-08-107-684B-25 US-08-107-684B-25 US-08-107-684B-25 US-08-107-684B-25 US-08-107-684B-46 US-08-466-446 US-08-489-46-446 US-08-489-46-446 US-08-489-485-29 5194425-9 5194425-9 FCT-US93-06751-98	n US/08467023 n US/08467023 lian B;
1111111 2011111111111111111111111111111	on US/08467 h, Irwin J. ulian F.; Richang; Siu-mel H.; Andrew; Andrew; Mark A.; Steven P. Allergen; Japanege Japanege Capanege Japanege Allergen;
28 29 29 31 31 32 33 34 35 36 37 37 38 39 30 30 30 30 31 32 33 34 35 36 36 36 36 37 37 38 39 30 30 30 30 30 30 30 30 30 30	1 1467-023-48 ence 48, Application for No. 609386 ERAL IN. 609386 ERAL IN. 609386 ERAL INFORMATION: PPLICANT: Griffeth, PPLICANT: Griffeth, PPLICANT: Pollock, PPLICANT: Pollock, PPLICANT: Powers, SPLICANT: Perlock PPLICANT: Exley, Ma PPLICANT: Exley, Ma PPLICANT: Exley, Ma PPLICANT: Powers, SPLICANT: Dewers, STREET: FRIE OF INVENTION: OUTRE: MALHAM STATE: MA CITY: WALHAM STATE: MA COUPTRY: GRADBELE FOR MA COUPTRY: IBM PC COUPTRY: IBM PC COMPUTER: IBM PC COMPUTE
	RECOUNTY OF THE PARTY PARTY OF THE PROPERTY OF

```
GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshiori
APPLICANT: Mame, Akinori
APPLICANT: Iwama, Akiko
APPLICANT: Isone, Kohouke
FILE REFERENCE: 590-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT APPLICATION NUMBER: POT/JP97/00740
FRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SEQ ID NO SEQ ID NOS: 174
SEQ ID NO SECTION OF SEQ ID NOS: 174
SEQ ID NO SECTION OF SEQ ID NOS: 174
SEQ ID NO SECTION OF SEQ ID NOS: 174
SEQ ID NO SECTION OF SEQ ID NOS: 174
SEQ ID NO SECTION OF SEQ ID NOS: 174
SEQ ID NO SECTION OF SEQ ID NOS: 174
SEQ ID NO SECTION OF SEQ ID NOS: 174
SEQ ID NO SECTION OF SECTIO
                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KESULT S

US-08-467-023-49

i Sequence 49, Application US/08467023

i Patent No. 6090386

i GENERAL INFORMATION:

APPLICANT: Griffeth, Irwin J.;

APPLICANT: Pollock, Joanne;

APPLICANT: Bond, Julian F;

APPLICANT: Reaman, Richard D;

APPLICANT: Wan, Mei-Chang;

APPLICANT: Kuo, Mei-Chang;

APPLICANT: Kauer, Andrew;

APPLICANT: Exley, Mark A.;

APPLICANT: Exley, Mark A.;

APPLICANT: Downers, Steven P.

ITILE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen

NUMBER OF SEQUENCES: 261

CORRESPONDENCE ADDRESS:

ADDRESSEE: ImmuLodic D**
                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                  Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 15;
                                                                                                                                                                                                               0: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; IOCATION: (1) ...(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 47
US-09-142-24D-61
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 46
US-09-142-524D-60
                                                                                                                                  Score 74; DB 4;
Pred. No. 7.4e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 53; DB 4;
Pred. No. 0.024;
1; Mismatches
                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 61, Application US/09142524D
Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 90.0%;
Matches 9; Conservative 1
                                                                                                                              Query Match 67.9%;
Best Local Similarity 92.9%;
Matches 13; Conservative
                                                                                                                                                                                                                                                                                             7 GORMPRARYGLIHV 20
                                                                                                                                                                                                                                                                                                                                          2 GORMPRARYGLVHV 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11 PRARYGLIHV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: Waltham
STATE: MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-142-524D-61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                  d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Iwama, Akino

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Lama, Akinori
APPLICANT: Lama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REPERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR FILING DATE: 1999-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                   ö
                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                             95.4%; Score 104; DB 3; Length 20; 90.0%; Pred. No. 9.9e-11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           / Match 72.5%; Score 79; DB 4; Length 15; Local Similarity 93.3%; Pred. No. 1.1e-06; nes 14; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                               1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: MISC_FEATURE
LOCAT/KON: (1)..(15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 45
US-09-142-524D-59
                                                                                                                                                                               1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-142-524D-60

. Sequence 60, Application US/09142524D

. Patent No. 6719976

; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 59, Application US/09142524D
Patent No. 6719976
                                                                                                                                                                                                                                                                                                     1 QFGPNCGQRMPRARYGLVHV 20
                                                                                                                                                                                                                                                            1 OFGPNAGORMPRARYGLIHV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 OFGPNAGORMPRARY 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (1). (15)
                                                                                             Query Match
Best Local Similarity
Matches 18; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 2
US-09-142-524D-59
                        US-08-467-023-48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 60
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                      APPLICANT: Kuo, Mei-Chang,
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Mark A.;
APPLICANT: Edey, Mark A.;
APPLICANT: Edey, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                          AUDKESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
FILING DATE: Date: 1995
PRIOR APPLICATION NUMBER: 08/350,225
PILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REGISTRATION NUMBER: 38,872
REGISTRATION NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 46.8%; Score 51; DB 3;
Best Local Similarity 90.0%; Pred. No. 0.07;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 258, Application US/08467023
Patent No. 6090386
                                            US-08-467-023-47; Sequence 47, Application US/08467023; Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Griffeth, Irwin J.;
Pollock, Joanne;
Bond, Julian F.;
Garman, Richard D;
Kuo, Mei-Chang;
                                                                                                                                                                   Pollock, Joanne;
Bond, Julian F.;
Garman, Richard D;
Kuo, Mei-Chang;
                                                                                                                                               Griffeth, Irwin J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Yeung, Siu-mei H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 4
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 QFGPNAGQRM 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11 QFGPNCGQRM 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-08-467-023-258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-467-023-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Twama, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Twama, Akiko
APPLICANT: Twama, Akiko
APPLICANT: Twama, Akiko
APPLICANT: Twama, Rohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SEQ ID NO SE
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     46.8%; Score 51; DB 4; Length 15; 90.0%; Pred. No. 0.051; tive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             48.6%; Score 53; DB 3; Length 20; 90.0%; Pred. No. 0.033; tive 1; Mismatches 0; Indels
                                     COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
SOCTUMER: IBM PC compatible
SOCTUMER: ABLENCE STEEN: PC-DOS/MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSITCATION: 424
PRIOR APPLICATION: 424
PRIOR APPLICATION: DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,972
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFAX: (617) 227-7400
INPORMATION FOR EQUID NO: 49:
SEQUENCE CHRARACTERISTICS:
LENGTH: 20 aming acids
                                                                                                                                                                                                                                                                                                                                                             025.6 USD2 (IMI-028CPD2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; LOCATION: (1)...(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 44
US-09-142-524D-58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 58, Application US/09142524D Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MOLECULE TYPE: peptide FRAGMENT TYPE: internal
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11 PRARYGLIHV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 QFGPNAGQRM 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OFGPNCGORM 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURE:
NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity
Matches 9; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 9; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                amino acid
GY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -142-524D-58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-467-023-49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
```

```
Query Match 29.4%; Score 32; DB 3; Length 20; Best Local Similarity 52.9%; Pred. No. 1e+02; Matches 9; Conservative 2; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 10, Application US/08614935
Patent No. 2804201
GENERAL INFORMATION:
APPLICANT: King, Te P.
TITLE OF INVENTION: INMUNOMODULATORY PEPTIES OF VESPID
TITLE OF INVENTION: ANTIGEN 5
NUMBER OF SEQUENCES: 81
CORRESPONDENCE ADDRESS:
ADDRESSE: David A. Jackson, Esq.
STREET: #11 Hackensack Ave, Continental Plaza, 4th
STREET: Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STATE: 1 ACKEDS
CITY: 1 ACKEDS
STATE: New Jersey
COUNTRY: USA
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIDLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/08/614,935
FILING DATE: 11-MAR-1996
CLASSIFICATION: 436
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/POCKET NUMBER: 600-1-156
TELECOMMUNICATION NUMBER: 600-1-156
                                  APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-UNA-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pct/aug1/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,3629
                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-291
TELEFAX: 215-567-291
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: 81ngle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: 201-343-1684
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3 GPNAGQRMP-RARYGLI 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-075-541D-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 10
US-08-614-935-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Albergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESSONDENCES: 261
CORRESSONDENCE ADDRESS:
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FRUENT NO. 013/42)
FRUENT NO. 013/42
FRUENT TINDLE, ROBERT
APPLICANT: FERNANDO, GERNAIN
APPLICANT: FERNANDO, GERNAIN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CUTY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
TIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FC-DOS/MS-DOS
SOFTWARE: PATENTIN RELEASE #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 42.2%; Score 46; DB 3; Length 19; Best Local Similarity 88.9%; Pred. No. 0.45; Matches 8; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                    COMPUTER READBLE FORM:

MEDIUM TYPE: Ploppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/POCKET NUMBER: 38,872
REFERENCE/POCKET NUMBER: 38,872
REFERENCE/POCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEFFAX: (617) 227-7400
TELEFFXX: (617) 227-7400
TELEFFXX: (617) 227-7401
TELEFXX: (617) 227-7591
INFORMATION FOR SEQ ID NO: 258:
SEQUENCE CHARACTERISTICS:
LENGTH: 19 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 5, Application US/08075541D
Patent No. 6183745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12 RARYGLIHV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-467-023-258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-08-075-541D-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
```

.; 7

2; Gaps

```
US-08-343-943-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-509-593-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                 ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;
                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
NUMBER OF SEQUENCES:
NUMBER OF SEQUENCES:
STREET: 411 Hackensack Ave, Continental Plaza, 4th
STREET: Floor
CITY: Hackensack
STREET: New Jersey
                                                                                                                        28.9%; Score 31.5; DB 1; Length 20; 50.0%; Pred. No. 1.3e+02; tive 3; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28.9%; Score 31.5; DB 3; Length 20; 50.0%; Pred. No. 1.3e+02; tive 3; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 07601

COMPUTER READABLE FORM:
MEDIUM TYRE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: DATEM: PC-DOS/MS-DOS
SOFTWARE: PatemtIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/130,287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 600-1-156 DIV
TELECOMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/614,935
FILING DATE: 11-MAR-1996
CLASSIFICATION: 424
                                                                                                                                                                                                                     PNCGRNVVKA-YGL 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   || |: :: | |||
PNCGRNVVKA-YGL 16
                                                                                                                                                                                                 4 PNAGQRMPRARYGL 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4 PNAGQRMPRARYGL 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 201-343-1684
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 28.9
Best Local Similarity 50.0
Matches 7; Conservative
                                                                                                                                                             Conservative
             MOLECULE TYPE: peptide
HYPOTHETICAL: NO
HATI-SENSE: NO
ISPRACHENT TYPE: internal
US-08-614-935-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                      Query Match
Best Local Similarity
Matches 7; Conserva
linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FRAGMENT TYPE:
 TOPOLOGY:
                                                                                                                                                                                                                                                                                                          US-09-130-287-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-130-287-10
                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
```

```
Sequence 5, Application US/09509593

Patent No. 6572860

GENERAL INFORMATION:

APPLICANT: DANIEL H. ZIMMERNAN, ET AL.

TITLE OF INVENTION: SIMPLEX VIRUS, COMPOSITIONS AND VACCINES CONTAINING SAME AND UTITLE OF INVENTION: THEREOF FOR TREATHENDEN PREVENTION OF HERPES SIMPLEX VIRUS AN TITLE OF INVENTION: DIAGNOSTIC TOOL AND IN DIAGNOSTIC RIT
US-08-343-98
US-08-38-38
US-08-38
US-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 30; DB 1; Length 10;
Pred. No. 1.1e+02;
3; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET: Sughrue, Mion, Zinn, Macpeak & Seas STREET: Slow Pennsylvania Avenue, N.W. CITY: Washington STATE: D.C. COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEM: DOS
SOFTWARE: FASTSEM: DOS
CURRETWARE: FASTSEM: DOS
CURRETWARE: 17-NOV-1994
CLASSIPRICATION NUMBER: US/08/343,943
FILING DATE: 17-NOV-1994
CLASSIPRICATION DATA:
APPLICATION NUMBER: 289513
FILING DATE: 18-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: BECKET, Cheryl L.
REGISTRATION NUMBER: 35,441
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: Q36816
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-293-7060
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            27.5%;
50.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE: D.C.
COUNTRY: USA
ZIP: 20037-3202
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 27.5
Best Local Similarity 50.0
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: 202-293-7860
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 FGSDAGRMIP 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 FGPNAGQRMP 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: amino acids
STRANDEDNESS: unk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FRAGMENT TYPE:
ORIGINAL SOURCE:
```

```
GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio:
APPLICANT: Mume, Akinori
APPLICANT: Wame, Akinori
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Wino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
FILE REPEATON NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 9
SOFTWARE: Patentin version 3.1
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 27.5%; Score 30; DB 4; Length 15; Best Local Similarity 100.0%; Pred. No. 1.7e+02; Matches 5; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 30; DB 5; Length 14;
Pred. No. 1.5e+02;
2; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                ANTI-SENSE: NO : IMMEDIATE SOURCE: Random Epitope Library Gamma PCT-US93-06751-64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Search completed: June 20, 2005, 14:22:22 Job time : 17.15 secs
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Meredith, Roy D.
REGISTRATION NUMBER: 30,777
REFERENCE/DOCKET NUMBER: 18614
TELECOMMUNICATION INFORMATION:
TELEPAN: (908) 594-4678
TELEPAN: (908) 594-4720
TELEX: 138825
INFORMATION FOR SEQ ID NO: 64:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; Sequence 9, Application US/09142524D ; Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-09-142-524D-9
                                                                                                                                                                                                                                                                                  TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 27.5
Best Local Similarity 50.0
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 OFGPNAGORM 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4 RFGPGRGEGM 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11 ÓFGÞN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 OFGPN 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-142-524D-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PCT-US93-06751-64

Sequence 64, Application PC/TUS9306751

GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: Immunological Conjugates of OMPC and
TITLE OF INVENTION: HIV-Specific Selected Principal Neutralization GXG Epitopes
INUMBER OF SEQUENCES: 146
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marck & Co., Inc.
STREET: P.O. Box 2000
CITY: Rahway
STARE: NJ
STARE: NJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                              COUNTER: USD.

ZIP: 22313
ZIP: 22313
ZOMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.25 inch, 1.4 mb storage
COMPUTER: Dell Optiplex GX110; 733 Mhz Microprocessor
OPERATING SYSTEM: Windows 98
SOFTWARE: Word 2000
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/503
FILING DATE: March 30, 2000
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
REGISTRATION: NUMBER: 26,588
REFERENCE/DOCKET NUMBER: CELL-104
TELEFHONE: (703) 849-2282
TELEFHONE: (703) 849-2282
TELEFRONCE (703) 836-0106
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acids
TYPE: MONIGET TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27.5%; Score 30; DB 4; Length 12; 66.7%; Pred. No. 1.3e+02; tive 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: USA
ZIP: 07065
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/06751
FILING DATE: 19930719
                     NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
CORRESSEE: Law Office of Sherman and Shalloway
STREET: 413 N. Washington Street
CITY: Alexandria
STREET: Virginia
COUNTRY: UseA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: glycoprotein C
CATION: 128 to 139
IDENTIFICATION METHOD:
COTHER INFORMATION:
US-09-509-593-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 66.7.
Loca 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FRAGMENT TYPE: internal ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8 QRMPRARYG 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 REDPLARYG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: HSV1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
```

Gaps

ö

ö

Gaps .

```
Sequence 61, Appl
Sequence 63, Appl
Sequence 515, App
Sequence 515, App
Sequence 69, Appl
Sequence 7, Appl
Sequence 7, Appl
Sequence 1274, App
Sequence 1274, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 62, App]
                                                                                                                                                    June 20, 2005, 14:14:01; Search time 53.45 Seconds (without alignments) 143.678 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/US07_NEW PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/US06_NEW PUB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/US07_NEW PUB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US07_NEW PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/US08_NEW PUB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US10R_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US10R_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10R_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10R_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10R_PUBCOMB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US10R_PUBCOMB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US10R_PUBCOMB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/US10R_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/US10R_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US10R_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US10R_PUBCOMB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US10R_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US10R_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10R_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10R_PUBCOMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  332641
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-354-240-62
US-10-354-240-61
US-10-354-240-63
US-10-354-240-60
US-10-115-123-515
US-10-115-123-515
US-10-468-543-7
US-10-468-543-7
US-10-68-543-7
US-10-864-761-34455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                          1714042 seqs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                       OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                115
1 PRARYGLIHVANNNYDPWSI 20
                                                                                                                                                                                                                                                                                                                                                                            BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                    US-09-202-464-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query
Match Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Minimum DB seq length: 0
Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                             Perfect score:
                                                                                                                                                                                                                                                                                                                                                                              Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 333337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score
                                                                                                                                                                                                                                                                                                                         Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Database
                                                                                                                                                            Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Result
No.
```

12	93	28.7	20	15	US-10-269-695-89	Sequence 89, Appl
54 L	2 6	4 0	1 6	U 4	118-10-100-608B-5	Semience 5. Appli
15	32	2 5	17	. 4	US-10-100-608B-8	Sequence 8, Appli
16	32	27	17	ø	US-10-099-791E-5	Sequence 5, Appli
17	32	27	17	·ω	US-10-099-791E-8	Sequence 8, Appli
9 6	32	N C	91.0	oν	US-10-474-213-12 TC-10-652-407-44	Seguence 12, Appl
20.2	3.5	7.0	14	9 F	US-10-661-156-85	Sequence 85. Appl
21	30	26	60	ന	US-10-114-176-23	Sequence 23, Appl
22	30	56	89	4.	US-10-323-013-23	Sequence 23, Appl
23	30	56	σ (m·	US-10-114-176-29	Sequence 29, Appl
4.2	30	26	σ ο	∢ ⋅	US-10-169-351-14	Sequence 14, Appl
7.0 7.0	200	9 0	ט ע	4 R	US-10-323-U13-29 TR-10-447-257-16	Seguence 29, Appr
27	900	2 6	n o	nα	US-10-44/-23/-16	Sequence 16. Appl
121	30	26	14	. 0	US-09-966-782A-48	Sequence 48, Appl
29	30	26	14	4	US-10-254-905-48	Sequence 48, Appl
30	30	26	16	0	US-09-972-656-4	Sequence 4, Appli
31	30	56	16	ø	US-10-657-006-4	Sequence 4, Appli
32	30	56	20	S	US-10-269-695-81	Sequence 81, Appl
33	30	56	70	വ	US-10-269-695-112	Sequence 112, App
34	30	56	20	ഹ	US-10-410-998-81	Sequence 81, Appl
35	ຕຸ	26	50	ശ	US-10-410-998-112	Sequence 112, App
36	29.5	25	70	ጥ '	US-10-243-740-3	Sequence 3, Appli
37	ຕ໌	25	50	マリ	US-10-243-740-6	Sequence 6, Appli
33	29	25	7	o١	US-10-347-145B-102	Sequence 102, App
95.	62	2.5	٠ ،	φ,	US-10-347-1458-138	Sequence 138, App
2.	y (0 t	י ע	η,	US-10-114-1/6-31	Sequence 31, Appl
4.	N (0 C	D	♥ •	US-10-032-221B-5/	Sequence 57, Appl
24.6	2 6	2 2	ס ת	4 6	US-10-323-013-31 178-10-088-584-13	Sequence 31, Appl
2 4 A	000	9 0	, כ	-	US-TO-363-384-13	Segmente 13, Appl
45	2 6		11	ന	US-10-114-176-32	Sequence
			,		ALIGNMENTS	
			•		,	
RESULT	-					
US-10-3	US-10-354-240-62	62				
; sedue	nce 62,	Applica	20 1010	7103	US/10354240 1504711	
GENER	AI, INFO	GENERAL INFORMATION:		Ì		
APPL	ICANT:	Sone, To	shio			
, APPL	ICANT:	Kume, A	kinori			
; APPL	ICANT:	Dairiki	, Kazuo			
; APPL	ICANT:	Iwama,	Akiko			
; APPL	ICANT:	Kino, K	ohBuke			1
; TITL	E OF IN	VENTION:	Peptid	e-Ba	erapeutic	Agent for Treating Allergic
FILE	REFERE	NCE: SPO	-103D1	1		
, curr	ENT APP	LICATION	NUMBER	S :	/10/354,240	
, CURR	ENT FIL	ING DATE		100	27	
. PEATO	R APPLI	CALLON A	1 997-03	֡֝֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֡֓֓֓֡֓֡	04/00//00	
OTAG .	R APPLT	CATTON N	IMBER	9 2	09/142,524	
PRIO	R FILIN	G DATE:	1998-09			
, NUMBER	ER OF S	NUMBER OF SEQ ID NOS: 174	S: 174			
	'	atentIn .	version	3.1		
SEQ I	EQ ID NO 62					
	GIH: 15					

c Disea

ö

0; Сарв

Query Match 72.2%; Score 83; DB 14; Length 15; Best Local Similarity 86.7%; Pred. No. 1.2e-05; Matches 13; Conservative 2; Mismatches 0; Indels

TYPE: PRT ORGANISM: Cryptomeria japonica FEATURE:

ò ద

```
Sequence 60, Application US/10354240

Sequence 60, Application US/10354240

Publication No. US20030185847A1

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Mame, Akinori

APPLICANT: Washio

APPLICANT: Washio

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION NUMBER: US/10/354,240

CURRENT FILING DATE: 1997-03-10

PRIOR FILING DATE: 1997-03-10

PRIOR FILING DATE: 1999-03-10

PRIOR FILING DATE: 1998-09-09

MINNER OF CONTROL OF C
                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JARIATA INTOCANTILON:

JARIATA INTOCANTILON:

JATILE OF INVENTION: 94 Human Secreted Proteins

FILE REFERENCE: 20029P1

CURRENT APPLICATION NUMBER: US/10/012,542

CURRENT PILING DATE: 2001-12-12

PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/461,325

PRIOR FILING DATE: EARLIER FILING DATE: 1999-12-14

PRIOR FILING DATE: EARLIER FILING DATE: 1999-06-16

PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-16

PRIOR PILING DATE: EARLIER FILING DATE: 1998-06-17

PRIOR PILING DATE: EARLIER FILING DATE: 1998-06-21

PRIOR PILING DATE: EARLIER FILING DATE: 1998-06-21

PRIOR PILING DATE: EARLIER FILING DATE: 1998-06-22

PRIOR PILING DATE: EARLIER FILING DATE: 1998-06-22
                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 53; DB 14; Length 15;
Pred. No. 0.46;
                                  DB 14; Length 15;
                                                                                                         0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row US-10-354-240-60
                                  Score 58; DB 14;
Pred. No. 0.079;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; Sequence 515, Application US/10012542; Publication No. US20030044851A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 174
SOFTWARE: PatentIn version 3.1
SEQ ID NO 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 90.0%;
Matches 9; Conservative
                                     50.4%;
90.0%;
                              Query Match
Best Local Similarity 90.0
Matches 9; Conservative
                                                                                                                                                                                     20
                                                                                                                                                                                                                           1 PRARYGLIHV 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ||||||||:||
6 PRARYGLVHV 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: MISC_FEATURE
                                                                                                                                                                                 11 ANNNYDPWSI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-012-542-515
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 15
                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 63, Application US/10354240

| Sequence 63, Application No. UG20030185847A1
| Sequence 63, Application No. UG20030185847A1
| GENERAL INFORMATION:
| APPLICANT: Sone, Toshio
| APPLICANT: Wame, Akinori
| PRIOR PLICATION NUMBER: US/10/354,240
| PRIOR PRING DATE: 1998-09-09
| WUMBER OF SEQ ID NOS: 174
| SEQ ID NO 63
| LENGTH: L5
| LENGTH: L5
| LENGTH: L5
| LENGTH: L5
                                                                                                                                                                                                                               Sequence 61. Application US/10354240

Sequence 61. Application US/10354240

Publication No. US20030185847A1

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Name, Akino

APPLICANT: Name, Akino

APPLICANT: Name, Akino

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

FILE REFREENCE: SPO-103D1

CURRENT FILING DATE: 2003-01-29

PRIOR FILING DATE: 1998-09-09

PRIOR FILING DATE: 1998-09-09

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: PatentIn version 3.1

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        71.3%; Score 82; DB 14; Length 15
93.3%; Pred. No. 1.8e-05;
tive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: MISC_FEATURE
CCATION: (1)...(15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 47
US-10-354-240-61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: MISC FEATURE
LOCATION: (1). (15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Cryptomeria japonica
6 GLIHVANNNYDPWSI 20
                                         1 PRARYGLIHVANNNY 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 PRARYGLVHVANNNY 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity 93.3
Matches 14; Conservative
                                                                                                                                                                                                                   US-10-354-240-61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-354-240-63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
```

ઠ 셤

```
JS-10-468-543-25
                                                                                                                                                                                     FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                 ô
                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gapa
                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .
0
                                                                                                                                                                                                        Score 37; DB 14; Length 16;
Pred. No. 1.3e+02;
2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          32.2%; Score 37; DB 14; Length 16; 55.6%; Pred. No: 1.3e+02; tive 2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION 94 Human Secreted Proteins
TITLE OF INVENTION: 94 Human Secreted Proteins
FILE REFERENCE: PZ029G30APID2
CURRENT APPLICATION NUMBER: US/10/115,123
CURRENT FILING DATE: 2002-04-04
PRIOR APPLICATION NUMBER: ECT/US99/13418
PRIOR FILING DATE: 1990-06-15
PRIOR FILING DATE: 1990-06-16
PRIOR FILING DATE: 1990-06-16
PRIOR FILING DATE: 1990-06-16
PRIOR PLICATION NUMBER: 60/089,509
PRIOR FILING DATE: 1990-06-16
PRIOR PLING DATE: 1990-06-16
PRIOR PLING DATE: 1990-06-16
PRIOR PLING DATE: 1990-06-16
PRIOR FILING DATE: 1990-06-13
PRIOR FILING DATE: 1990-06-13
PRIOR FILING DATE: 1990-06-12
PRIOR PLING DATE: 1990-06-13
PRIOR FILING DATE: 1990-06-13
PRIOR FILING DATE: 1990-06-13
PRIOR FILING DATE: 1990-06-12
PRIOR PLING DATE: 1990-06-12
PRIOR PLING DATE: 1990-06-12
PRIOR PLING DATE: 1990-06-12
PRIOR PLING DATE: 1990-06-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 69, Application US/10300694A
; Sequence 69, Application US/10300694A
; Publication No. US2003018580A1
; GENERAL INFORMATION:
; APPLICANT: Grinstaff, Mark W.
; APPLICANT: Grinstaff, Mark W.
; APPLICANT: Malsh, Elisabeth B.
; APPLICANT: Middleton, Crystan
; TITLE OF INVENTION: INTERFACIAL BIOWATERIALS
; FILE REPRENCE: 180/143/2
; CURRENT APPLICATION NUMBER: US/10/300,694A
; CURRENT FILING DATE: 2003-05-07
; PRIOR APPLICATION NUMBER: US 60/331,843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Sequence 515, Application US/10115123
; Publication No. US20030065151A1
; GENERAL INFORMATION:
                                                                                                                                                                                                           Query Match
Best Local Similarity 55.6%;
Matches 5; Conservative
NUMBER OF SEQ ID NOS: 532
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 515
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity 55.6
Matches 5; Conservative
                                                                                                       ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-012-542-515
                                                                                                                                                                                                                                                                                                                  11 ANNNYDPWS 19
                                                                                                                                                                                                                                                                                                                                                   S SNGNLDPWA 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11 ANNNYDPWS 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SNGNLDPWA 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-115-123-515
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
```

```
APPLICANT: Irimura, Tatsuro
APPLICANT: Matsumoto, Mariko
APPLICANT: Matsumoto, Mariko
APPLICANT: Yim, Mijung
APPLICANT: Ono, TRASSHI
TITLE OF INVENTION: Lectins for Analyzing Sugar Chains and Method of Using the Same
FILE REPERENCE: 03-786
CURRENT APPLICATION NUMBER: US/10/468,543
CURRENT APPLICATION NUMBER: JP 2001-044221
PRIOR FILING DATE: 2001-02-20
NUMBER OF SEQ ID NOS: 95
SOFTWARE: PatentIn version 3.1
LENGTH: 11

WANDER THE TATE OF THE TATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Irimura, Tateuro
APPLICANT: Irimura, Tateuro
APPLICANT: Irimura, Tateuro
APPLICANT: Mateumoto, Mariko
APPLICANT: Mateumoto, Mariko
APPLICANT: Min, Mijung
APPLICANT: Ono, Takashi
TITLE OF INVENTION: Lectins for Analyzing Sugar Chains and Method of Using the Same
FILE REFERENCE: 03-786
CURRENT APPLICATION NUMBER: US/10/468,543
CURRENT FILING DATE: 2001-08-20
RIOR PRILING DATE: 2001-02-20
NUMBER OF SEQ ID NOS: 95
SOFTWARE: Patentin version 3.1
SEQ ID NO 5: 55
LENGTH: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 33; DB 15; Length 11; Pred. No. 3.7e+02; 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1; Indels
                                                                                                                                                                                                                                                                                                                                                                         ; OTHER INFORMATION: Polycarbonate-binding peptide 69
US-10-300-694A-69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
30.4%; Score 35; DB 14;
Best Local Similarity 71.4%; Pred. No. 2.2e+02;
Matches 5; Conservative 1; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 25, Application US/10468543
Publication No. US20040091938A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 7, Application US/10468543 Publication No. US20040091938A1 GENERAL INFORMATION:
PRIOR FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 117
SOFTWARE: Patentin version 3.2
SEQ ID NO 69
LENGTH: 13
TYPE: PRT
ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 28.7%;
Best Local Similarity 66.7%;
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; ORGANISM: Maackia amurensis
US-10-468-543-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT ORGANISM: Maackia amurensis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12 NNNYDPW 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3 NVNYNPW 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13 NNYDPW 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6 HSYDPW 11
```

ઠે g

```
| Sequence 89. Application US/10269695 | Sequence 89. Application US/10269695 | Sequence 89. Application No. US20030229023A1 | GENERAL INFORMATION: OSPECIAL ON THAN DANIEL | APPLICANT: OLINER, JONATHAN DANIEL | APPLICANT: MIN, HOSUNG | TILE REFERENCE: A-801A | FILE REFERENCE: A-801A | CURRENT FILING DATE: 2002-10-10 | PRIOR FILING DATE: 2002-09-27 | PRIOR FILING DATE: 2002-09-27 | PRIOR FILING DATE: 2001-10-11 | NUMBER: US 60/328,624 | PRIOR PILING DATE: 2001-10-11 | NUMBER CF SEQ ID NOS: 359 | SOFTWARE: Patentin version 3.1 | SEQ ID NO 89 | LENGTH: 2001-10-10 | LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANIEM: Homo sapiens
PEATURE:
OTHER INFORMATION: MAP TO AC007275.3
OTHER INFORMATION: EXPRESSED IN HBLIOO, SIGNAL = 3.8
OTHER INFORMATION: EXPRESSED IN BLUT LIVER, SIGNAL = 5
OTHER INFORMATION: EXPRESSED IN BLUT LIVER, SIGNAL = 4.3
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 4.3
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 3.6
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 3.7
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 3.7
OTHER INFORMATION: EXPRESSED IN BLAIA, SIGNAL = 5.2
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.1
OTHER INFORMATION: EXPRESSED IN BLAIA, SIGNAL = 5.2
OTHER INFORMATION: EXPRESSED IN BLAIA, SIGNAL = 5.2
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 4.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 33; DB 9; Length 19;
Pred. No. 6.5e+02;
4; Mismatches 2; Indels
                    PRIOR APPLICATION NUMBER: PCT/USO1/00664
PRIOR FILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
PRIOR PLICATION NUMBER: PCT/USO1/00669
PRIOR PLICATION NUMBER: PCT/USO1/00666
PRIOR APPLICATION NUMBER: PCT/USO1/00668
PRIOR APPLICATION NUMBER: PCT/USO1/00668
PRIOR APPLICATION NUMBER: PCT/USO1/00668
PRIOR APPLICATION NUMBER: PCT/USO1/00663
PRIOR APPLICATION NUMBER: PCT/USO1/00663
PRIOR PILING DATE: 2001-01-30
PRIOR PILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR APPLICATION NUMBER: US 60/774,203
PRIOR PILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 99/774,203
PRIOR PILING DATE: 2000-09-21
PRIOR PILING DATE: 2001-01-29
NUMBER OF SEC ID NOS: 49117
SEC ID NO 344555
LENGTH: 19
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28.7%;
40.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 40.0
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 RARYGLIHVA 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                : ||::|:|
3 KRNYGILHIA 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTHER INFORMATIC
US-09-864-761-34455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 11
US-09-864-761-34455
; Sequence 14455, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
APPLICANT: Rank, David R.
APPLICANT: Penn, Sharron G.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USFFUL FOR TILE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USFFUL FOR STILE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USFFUL SPILE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USFFUL SPILE OF INVENTION: HUMBER: US/09/864,761
CURRENT APPLICATION NUMBER: US/09/864,761
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US/09/632,366
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-27
; PRIOR FILING DATE: 2000-09-27
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/09/33,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR APPLICATION NUMBER: PCT/US01/00666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Leach, Martin D.
TITLE OF INVENTION: NUCLEIC ACIDS CONTAINING SINGLE NUCLEIC ACID POLYMORPHISMS AND ME
TITLE OF INVENTION: USE THEREOF
FILE REPRENCE: 15566-559
CURRENT PILING DATE: 2004-03-29
PRIOR APPLICATION NUMBER: 60/163,783
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1468
SOFTWARE: Curaden Patent Formatter Version 0.9
SEQ ID NO 1274
                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                            ö
                                                                    28.7%; Score 33; DB 15; Length 11; 66.7%; Pred. No. 3.7e+02; ive 2; Mismatches 0; Indel8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   h Similarity 57.1%; Score 33; DB 16; Length 14; Similarity 57.1%; Pred. No. 4.7e+02; 4; Conservative 3; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1274, Application US/10813638 Publication No. US20040235026A1 GENERAL INFORMATION: APPLICANT: Shimkets, Richard A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LOCATION: (7)...(0)
CTHER INFORMATION: CSNP translation
US-10-813-638-1274
                                                                                                                                                        4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14 NYDPWSI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               :|:|||:
6 SYNPWSL 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 4; Conserv
                                                                        Query Match
Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                                    13 NNYDPW 18
                                                                                                                                                                                                                                                                                ::||||
6 HSYDPW 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -10-813-638-1274
US-10-468-543-25
```

ò 셤

```
Search completed: June 20, 2005, 15:55:18 Job time : 54.45 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 55.6
Matches 5; Conservative
                                 SNNNFLTWS 14
     11 ANNNYDPWS 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11 ANNNYDPWS 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            :|||: ||
6 SNNNFLTWS 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 17
TYPE: PRT
ORGANISM: Human
                                                                                                                                      RESULT 15
US-10-100-608B-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-100-608B-8
                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                         Sequence 89, Application US/10410998
Publication No. US20030236193A1
SEGRERAL INFORMATION:
APPLICANT: OLINER, JONNTHAN DANIEL
APPLICANT: MIN, HOSUNG
ITILE OF INVERTION:
CURRENT APPLICATION NUMBER: US/10/410,998
CURRENT APPLICATION NUMBER: US/10/410,998
FILE REFERENCE: A-8010
FRIOR APPLICATION NUMBER: US/10/269,695
FRIOR PILING DATE: 2003-04-09
FRIOR PILING DATE: 2003-06-10
FRIOR FILING DATE: 2002-10-10
FRIOR FILING DATE: 2002-10-10
FRIOR PLING DATE: 2002-09-27
FRIOR APPLICATION NUMBER: US 60/3128,624
FRIOR APPLICATION NUMBER: US 60/3128,624
FRIOR APPLICATION NUMBER: US 60/318,624
                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                       28.7%; Score 33; DB 15; Length 20; 66.7%; Pred. No. 6.8e+02; ive 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 27.8*; Score 32; DB 14; Length 17; Best Local Similarity 55.6*; Pred. No. 8.2e+02; Matches 5; Conservative 2; Mismatches 2; Indels
                         ; OTHER INFORMATION: Polypeptide capable of binding to Ang-2 US-10-269-695-89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28.7%; Score 33; DB 15; Length 20; 66.7%; Pred. No. 6.8e+02; ive 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; OTHER INFORMATION: Polypeptide capable of binding to Ang-2 US-10-410-998-89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 5. Application US/10100608B
Publication No. US20030104412A1
GENERAL INFORMATION:
TITLE OF INVENTION: REG-LIKE PROTEIN
FILE REPERENCE: CDS-261
CURRENT APPLICATION NUMBER: US/10/100,608B
CURRENT PILING DATE: 2002-09-10
PRIOR PILING DATE: 2002-09-16
NUMBER OF SEQ ID NOS: 45
SOFTWARE: Patentin version 3.1
SEQ ID NO 5
LENGTH: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ouery Match
Best Local Similarity 66.77
                                                                                                    Query Match
Best Local Similarity 66.7
Matches 4; Conservative
                                                                                                                                                                                                                 14 NYDPWS 19
                                                                                                                                                                                                                                                   |:|||:
8 NWDPWT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14 NYDPWS 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |:|||:
8 NWDPWT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; TYPE: PRT
; ORGANISM: Human
US-10-100-608B-5
                                                                                                                                                                                                                                                                                                                                                                                US-10-410-998-89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-100-608B-5
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27.8%; Score 32; DB 14; Length 17; 55.6%; Pred. No. 8.2e+02; tive 2; Mismatches 2; Indels
Sequence 8, Application US/10100608B; Publication No. US20030104412A1
GENERAL INFORMATION:
APPLICANT: Heiskala, Marja
TITLE OF INVENTION: REG-LIKE PROTEIN
FILE REFERENCE: CDS-261
CURRENT FILLING DATE: 2002-09-10
PRIOR APPLICATION NUMBER: 60/276,414
PRIOR APPLICATION NUMBER: 60/276,414
PRIOR FILING DATE: 2002-09-10
NUMBER OF SEQ ID NOS: 45
SOFTWARE: PREENTING DATE: 2002-03-16
NUMBER OF SEQ ID NOS: 45
SOFTWARE: PREENTING DATE: 2002-03-16
NUMBER OF SEQ ID NOS: 45
SOFTWARE: PREENTING DATE: 2002-03-16
NUMBER OF SEQ ID NOS: 45
```

THIS PAGE BLANK (USPTO)

```
US-08-467-023-49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 49, Appl
                                                                                                                                                                         June 20, 2005, 14:04:11; Search time 16.15 Seconds (without alignments) 92.445 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence Seq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence Sequence Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1: /cgn2_6/ptcdata/1/iaa/5A_COMB.pep:*
2: /cgn2_6/ptcdata/1/iaa/5B_COMB.pep:*
3: /cgn2_6/ptcdata/1/iaa/6A_COMB.pep:*
5: /cgn2_6/ptcdata/1/iaa/6B_COMB.pep:*
6: /cgn2_6/ptcdata/1/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptcdata/1/iaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-467-023-49

US-08-467-023-258

US-09-142-524D-62

US-09-142-524D-63

US-09-142-524D-63

US-08-467-023-50

US-08-467-023-48

US-08-290-448A-55

US-08-290-448A-55

US-08-490-48A-55

US-08-464-000-55

US-08-464-000-55

US-08-290-448A-28

US-08-464-000-55

US-08-464-000-55

US-08-464-000-28

US-08-464-000-28

US-08-464-000-28

US-08-490-123-515

US-08-490-123-515

US-09-490-070A-207

US-09-490-153-207

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                  protein search, using sw model
                                                                                                                                                                                                                                                                                                  US-09-202-464-26
115
1 PRARYGLIHVANNNYDPWSI 20
                                                                                                                                                                                                                                                                                                                                                                                                                           BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Issued Patents AA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 seg length: 0
seg length: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1111

4444

00444

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

00000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000
                                                                                                                                                                                                                                                                                                     Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                              Scoring table:
                                                                                                                  OM protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Minimum DB
Maximum DB
                                                                                                                                                                                                                                                                                                                                                                     Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Searched:
                                                                                                                                                                               Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Result
```

```
28 31.5 27.4 12 4 US-09-490-153-180 Sequence 180, App 29 31.5 27.4 12 4 US-09-490-324-180 Sequence 180, App 31 0.5 27.4 12 4 US-09-490-324-180 Sequence 180, App 31 0.5 21 1.5 2.7 21 2 2 US-09-561-3668-29 Sequence 23, Appl 32 25.1 18 1 US-08-438-123-9 Sequence 29, Appl 33 20 26.1 18 1 US-08-438-123-9 Sequence 29, Appl 35 29.5 25.7 20 4 US-08-438-123-9 Sequence 29, Appl 37 29.5 25.7 20 4 US-08-217-704C-3 Sequence 21, Appl 39 29 25.2 19 4 US-10-114-176-31 Sequence 31, Appl 40 29 25.2 11 4 US-09-561-3668-31 Sequence 31, Appl 41 29 25.2 11 4 US-01-114-176-31 Sequence 32, Appl 42 29 25.2 14 1 US-08-61-3668-32 Sequence 32, Appl 44 29 25.2 14 1 US-08-617-6848-56 Sequence 25, Appl 44 29 25.2 14 1 US-08-107-6848-56 Sequence 25, Appl 44 29 25.2 14 1 US-08-107-6848-56 Sequence 27, Appl 44 29 25.2 14 1 US-08-107-6848-29 Sequence 25, Appl 45 29 25.2 14 1 US-08-107-6848-29 Sequence 27, Appl 45 29 25.2 14 1 US-08-107-6848-29 Sequence 27, Appl 45 29 25.2 14 1 US-08-107-6848-29 Sequence 27, Appl 45 29 25.2 14 1 US-08-107-6848-29 Sequence 27, Appl 45 29 25.2 14 US-08-107-6848-29 Sequence 27, Appl 46 29 25.2 14 US-08-107-6848-29 Sequence 27, Appl 47 29 25.2 14 US-08-107-6848-29 Sequence 27, Appl 47 29 25.2 14 US-08-107-6848-29 Sequence 27, Appl 47 29 25.2 14 US-08-107-6848-29 Sequence 27, Appl 48 29 25.2 14 US-08-107-6848-29 Sequence 27, Appl 4
```

ALIGNMENTS

```
US-BH-467-023-49
US-BH-467-023-49
US-BH-467-023-49
US-BH-467-023-49
US-BH-467-023-49
US-BH-467-023-49
US-BH-467-023-49
US-BH-467-03-49
US-BH-467-03-40
US-BH-4
```

```
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                               ö
                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Griffeth, Irwin J.;
APPLICANT: Bollock, Joanne;
APPLICANT: Bollock, Joanne;
APPLICANT: Bollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Exley, Andrew;
APPLICANT: Exley, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
CORRESPONDENCE ADDRESS:
ADDRESSEE: ImmLogic Pharmaceutical Corporation, Inc.
CITY: Waltham
STATE: MA
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         90.4%; Score 104; DB 3; Length 19; 89.5%; Pred. No. 1.7e-09; Live 2; Mismatches 0; Indels
                                         96.5%; Score 111; DB 3; Length 20; 90.0%; Pred. No. 1.5e-10; Live 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:

MEDIUM TYPE: Flopyd disk
COMPUTER: Flopyd disk
COMPUTER: IBM PC COMPATIDLE
OPERATING SYSTEM: PC-DOS/NS-DOS
SOFTWARE: PAtentin Release #1.0, Version #1.25
CURENT APPLICATION DATE:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIPICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGRY INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,972
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                            Sequence 258, Application US/08467023
Patent No. 6090386
                                                                                                                                         1 PRARYGLIHVANNNYDPWSI 20
                                                                                                                                                                    1 PRARYGLVHVANNNYDPWTI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 RARYGLIHVANNNYDPWSI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 RARYGLVHVANNNYDPWTI 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 258:
SEQUENCE CHARACTERISTICS:
LENGTH: 19 amino acide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 89.59
Whiches 17, Conservative
                                                                    Best Local Similarity 90.0
Matches 18; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-467-023-258
US-08-467-023-49
                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                              ð
                                                                                                                                                                                      셤
```

RESULT 3

```
Sequence 62, Application US/09142524D

Sequence 62, Application US/09142524D

Sequence 719976

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Nama, Akinori

APPLICANT: Inwama, Akiko

APPLICANT: Inwama, Akiko

APPLICANT: Inwama, Akiko

APPLICANT: Inwama, Akiko

APPLICANT: Nama, Akiko
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL OF TREATMENT OF THE STATE OF THE STA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gapв
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 82; DB 4; Length 15;
Pred. No. 3.2e-06;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: MISC_FEATURE
LOCATION: (1)...(15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 48
US-09-142-524D-62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION: (1).7(15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 47
US-09-142-524D-61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 72.2%; Score 83; DB 4; Lei
Best Local Similarity 86.7%; Pred. No. 2.2e-06;
Matches 13; Conservative 2; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               71.3%;
93.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6 GLIHVANNNYDPWSI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 93.33
Matches 14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-142-524D-61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
```

```
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: PCT/JP97/00740
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          46.1%; Score 53; DB 4; Length 15; 90.0%; Pred. No. 0.093; tive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Indels
                     NAME: Jane E. Remillard
REGISTRATION NUMBER: 38 872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEPAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 50.
SEQUENCE CHRAACTERISTICS:
LENGTH: 20 aming acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: MISC_FEATURE
COATION: (1)...(15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 46
US-09-142-524D-60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 58; DB 3;
Pred. No. 0.022;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 60, Application US/09142524D
Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 48, Application US/08467023; Patent No. 6090386; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bond, Julian F.;
Garman, Richard D;
Kuo, Mei-Chang;
Yeung, Siu-mei H.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Griffeth, Irwin J.;
Pollock, Joanne;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 90.0%;
Matches 9; Conservative
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 90.0.
Best Local 9, Conservative
                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 ANNNYDPWTI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11 ANNNYDPWSI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 PRARYGLIHV 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JS-09-142-524D-60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                     TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 8
US-08-467-023-48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                        GENERAL INFORMATION:
APPLICANT: Sone, Tochio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Dairiki, Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: Truch OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: PatentIn version 3.1
SEQ ID NO 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               USENDEARL INFORMATION:
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Bond, Julian F.;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mai-Chang;
APPLICANT: Kvung, Sil-mei H.;
APPLICANT: Exley, Mark A.;
APPLICANT: Bowers, Steven P.
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CCRRESPONDENCE ADEXES:
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
STREE: 610 Lincoln St
CCTTY: Waltham
STATE: MA
COMPUTR: RADABLE FORM:
MEDIUM TYPE: By PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Batentin Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLIASSIFICATION NUMBER: US/08/255
FILING DATE: DATE:
PRICAL DAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             50.4%; Score 58; DB 4; Length 15; 90.0%; Pred. No. 0.016; tive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: MISC_FEATURE
LOCATION: (1)...(15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 49
08-09-142-5240-63
                                          ; Sequence 63, Application US/09142524D; Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 50, Application US/08467023 Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: December 6, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Cryptomería japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity 90.0
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11 ANNNYDPWSI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 ANNNYDPWTI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
```

요 ઠ

```
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,448A
FILING DATE: ANGUEL 15, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/529,951
FILING DATE: MAY 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: MARCH 17, 1989
ATTORNEY/AGENT INFORMATION:
NAME: AMY E. MAIGRAGOURAS
REGISTRATION NUMBER: 36,207
REGISTRATION NUMBER: 36,207
REGISTRATION NUMBER: IMI-018CN
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227.7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: (617)227-5941
INPORMATION FOR SEQ ID NO: 55:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6 GLIHVANNNYDPW 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 GFFQVVNNNYDRW 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity 61.5
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STATE: Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               amino acid
GY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDr. STREET: 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-290-448A-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-290-448A-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGIH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Riapper, David G.

APPLICANT: Rafnar, Thorunn

APPLICANT: ADPRESS:

ADPRESSE: LAHIVE & COCKPIELD

STREET: GO State Street, suite 510

CITY: Boston

STATE: Massachusetts

COUNTRY: USA
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCES: 261
ADDRESSEB: Immulogic Pharmaceutical C
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: ITP-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 46.1%; Score 53; DB 3; Length 20; Best Local Similarity 90.0%; Pred. No. 0.13; Matches 9; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/POCKET NUM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FC compatible
OCMPUTER: FLOPPY ROWS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-290-448A-55; Sequence 55, Application US/08290448A; Patent No. 5676954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 PRARYGLIHV 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-467-023-48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
```

```
Gaps
                                                                                                                                                                                                                                                                                           Sequence 55, Application US/08290448A
Patent No. 5698204
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Klapper, David G.
APPLICANT: Klapper, David G.
APPLICANT: Kno, Mei-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, suite 510
                                                     ö
43.5%; Score 50; DB 1; Length 17; 61.5%; Pred. No. 0.31;
                                                     5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,448A
FILING DATE: August 15, 1994
FRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/290,448A
FRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/529,951
FILING DATE: March 17, 1989
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: 111-018CN
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
```

```
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                              APPLICANT: Rogers, Bruce
APPLICANT: Rafnar, Thorun
APPLICANT: Rafnar, Thorun
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSER: LAHIVE & COCKFIEIN ...
                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                             DB 1; Length 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1; Length 17;
                                                                                                                                             5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: Boscon
STATE: Massachusetts
COWTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Ploppy disk
COMPUTER: PLOPSY MSS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PAPLICATION NUMBER: US/08/175,069A
FILING DATE: December 29, 1993
FROOR APPLICATION DATA:
APPLICATION NUMBER: US 07/529,951
FILING DATE: March 17, 1989
ATTORNEY AGENT INFORMATION:
NAME: AMP E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018DV
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227.7400
                                                                                                             Score 50;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     43.5%; Score 50;
61.5%; Pred. No.
                                                                                                                                                                                                                                                                            US-08-175-069A-55
; Sequence 55, Application US/08175069A
Patent No. 5776761
; GENERAL INFORMATION:
                                                                                                             43.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6 GLIHVANNNYDPW 18
17 amino acids
                                                                                                                                                                            6 GLIHVANNNYDPW 18
                                                                                                                                                                                                            1 GFFQVVNNNYDRW 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 61.5
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GFFQVVNNNYDRW 13
                                                                                                                                             Conservative
                                          MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                          Query Match
Best Local Similarity
Matches 8; Conservat
                                linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        amino acid
                amino acid
                           TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-175-069A-55
                                                                             US-08-290-448A-55
                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                               ઠ
```

RESULT 12

```
APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorun
APPLICANT: Rafnar, Thorun
APPLICANT: Ro, Mel-chang
APPLICANT: Roy APPLICANT: Protein Allergen Using Peptides Which Inlcude A T Cell Epitope
NUMBER OF SEQUENCES: 93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Rogers, Bruce
APPLICANT: Rapper, David G.
APPLICANT: Rafner, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen
NUMBER OF SEQUENCES: 93
CORRESPONDENCE 3.
ADDRESSEE: LAHIVE & COCKFIELD, LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 3; Length 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Eloppy disk
COMPUTER: Eloppy disk
COMPUTER: PROMED COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/461,939B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No. 0.31); Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REPERENCE/DOCKET NUMBER: IMI-018CNDV
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/464,000
FILING DATE: 05-JUN-1995
APPLICATION NUMBER: US 08/290,448
FILING DATE: 15-AUG-1994
APPLICATION NUMBER: US 07/529,951
FILING DATE: 29-MAY-1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: 17-MAK-1989
ATTONNEY/AGENT INPORMATION:
NAME: AMY E. MANDEAGOULTAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 50;
Pred. No.
                                                                                                                                                                                                                           STREET: 28 State Street
CITY: Boston
STATE: Maner-
  Application US/08461939B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-464-000-55
; Sequence 55, Application US/08464000
; Setter No. 6335020
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             55:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 61.5%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (617) 742-4214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6 GLIHVANNNYDPW 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 GFFOVVNNNYDRW 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                           Massachusetts
: USA
                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
TOPOLOGY: linear
Sequence 55, Applicat Patent No. 6335019 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-461-939B-55
                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 28, Application US/08290448A
Patent No. 5698204
GENERAL INFORMATION:
APPLICANT: Rogers, Bruce
APPLICANT: Rapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Rafnar, Thorun
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ij
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 35.2%; Score 40.5; DB 1; Length 15; Best Local Similarity 50.0%; Pred. No. 7.8; Matches 8; Conservative 2; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: Boston
CUNTRY: USA
ZIP: O2109-1875
ZIP: O2109-1875
ZIP: O2109-1875
ZIP: O2109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Elopy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,448A
FILING DATE: August 15, 1994
FILING DATE: May 29, 1990
APPLICATION NUMBER: US 07/529,951
FILING DATE: May 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: Max 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: Max 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: Max 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: Max 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: Max 20, 1080
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CN
FILING DATE: May 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: March 17, 1989
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CN
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEPHONE: (617)227-5941
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEPRAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 PRARYGLIHVANNYD 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 || |:| : || ||
1 PR-RFGFFQIVNNFYD 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-290-448A-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-08-28

18-08-29-4488A

18-08-29-4488A

18-08-29-4488A

18-08-29-4488A

18-08-29-4488A

18-08-29-4488A

18-08-29-4488A

18-08-29-4488A

18-08-29-4488A

18-08-29-48-29

18-08-29-39

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-08-29

18-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 3; Length 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5; Indels
                                                                                                                                                                         COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENT PROFILE #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/464,000
FILING DATE: 05-JUN-1995
PRIOR APPLICATION NUMBER: US 08/290,448
FILING DATE: 15-AUG-1994
APPLICATION NUMBER: US 07/529,951
FILING DATE: 15-AUG-1994
APPLICATION NUMBER: US 07/325,365
FILING DATE: 17-MAR-1990
APPLICATION NUMBER: US 07/325,365
ATTORNEY/AGENT INFORMATION:
NAME: AMAY E. MANGLAGOURAB
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: 181-018CN2
TELEPHONE: (617)227-7400
TELEPRAXE
TELEPRAXE (617)227-7400
TELECOMMUTICATION INFORMATION:
TELEPRAXE (617)227-7400
TELEPRAXE: (617)227-7400
TELECOMMUTICATION INFORMATION:
TELEPRAXE (617)227-7400
TELEPRAXE (617)227-7400
TELECOMMUTICATION INFORMATION:
TELEPRAXE (617)227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 50; DB
Pred. No. 0.31
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 61.5%;
Matches 8; Conservative
                          60 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6 GLIHVANNNYDPW 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 GFFOVVNNNYDRW 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
               STREET: 60 State Stre
CITY: Boston
STATE: Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-290-448A-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-464-000-55
```

ò 셤

```
US-08-290-448A-28
```

Query Match
35.2%; Score 40.5; DB 1; Length 15;
Best Local Similarity 50.0%; Pred. No. 7.8;
Matches 8; Conservative 2; Mismatches 5; Indels 1; Gaps

7

1 PRARYGLIHVANNNYD 16 || || || || || || 1 PR-RFGFFQIVNNFYD 15

ઠે

Db 1 PR-RFGFFQIVNNFYD 15

Search completed: June 20, 2005, 14:22:22 Job time : 16.15 sec8

THIS PAGE BLANK (USPYU)

```
June 20, 2005, 14:14:01; Search time 53.45 Seconds (without alignments) 143.678 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/US07_NEW PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/US06_NEW PUB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/US07_NEW PUB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              332641
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1714042 segs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                               1 ANNNYDPWSIYAIGGSSNPT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                               US-09-202-464-27
114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          seg length: 0
seg length: 20
                                                                                                                                                                                                                                                                                                                                                  Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Minimum DB E
Maximum DB E
                                                                                                                                   OM protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Database :
                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Searched:
                                                                                                                                                                                                       Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description	quence 63, Appl	Sequence 64, Appl	quence 62, Appl	Sequence 65, Appl	Sequence 100, App	Sequence 65, Appl	Sequence 515, App	Sequence 515, App	Sequence 69, Appl	14	Sequence 101, App
Desca	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec
ΩI	US-10-354-240-63	US-10-354-240-64	US-10-354-240-62	US-10-354-240-65	US-10-346-162-100	US-10-794-514A-65	US-10-012-542-515	US-10-115-123-515	US-10-300-694A-69	US-10-346-162-142	US-10-656-250-101
	14	14	14	14	15	11	14	14	14	15	17
% Query Match Length DB	15	15	15	15	16	15	16	16	13	15	15
Query Match	74.6	71.9	50.9	46.5	33.3	32.5	32.5	32.5	30.7	30.7	30.7
Score	85	82	58	23	38	37	37	37	35	35	35
Result No.	-	7	m	4	ស	9	7	œ	0	10	11

, AF	equence 275, equence 276, equence 89, equence 103, equence 66, equence 5, p equence 6, p equence	Sequence 58, Appl Sequence 17, Appl Sequence 33, Appl Sequence 85, Appl Sequence 81, Appl Sequence 4, Appl Sequence 12, Appl Sequence 1, Appl Sequence 1, Appl Sequence 86, Appl Sequence 86, Appl Sequence 86, Appl Sequence 10, Appl Sequence 10, Appl Sequence 86, Appl Sequence 86, Appl Sequence 9, Appl
US-10-6 US-10-4 US-10-4 US-10-8	US-10-280-066-27 US-10-280-066-27 US-10-280-066-27 US-10-40-998-89 US-10-456-250-10 US-10-100-6088-8 US-10-100-6088-8 US-10-099-791R-5 US-10-794-514A-5 US-10-794-514A-5 US-10-794-514A-5	US-10-659-207-58 US-10-659-207-58 US-10-652-407-44 US-10-661-156-85 US-10-661-156-85 US-10-539-207-81 US-10-539-207-81 US-10-258-144-357 US-10-26-965A-7 US-10-06-965A-7 US-10-06-965A-7 US-10-162-968-86 US-10-410-998-86
00444	,00000000	2000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
34 5 30 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	33 33 33 33 33 33 33 33 33 33 33 33 33	6.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5

RESULT 140-53

1 Sequence 63, Application US/10354240

1 Sequence 63, Application US/10354240

2 Publication No. US20030185847A1

3 GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Kame, Akinori

APPLICANT: Name, Akinori

APPLICANT: Wame, Akinori

PRIOR APPLICANT: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

FILE REFERENCE: SPO-103D1

CURRENT PILING DATE: 2003-01-29

PRIOR APPLICATION NUMBER: DCT/JP97/00740

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR APPLICANT: Patentin version 3.1

SEQ ID NO 63

LENGTH: BATURE:

CORATION: (1). (15)

COTHER INFORMATION: Cryjl peptide, Figure 1, Row 49

US-10-354-240-63

Query Match 74.6%; Score 85; DB 14; Length 15; Best Local Similarity 93.3%; Pred. No. 5.2e-06; Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps

```
APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Mame, Akinori
APPLICANT: Mame, Akinori
APPLICANT: Mame, Akinori
APPLICANT: Iwame, Akiko
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF TOWNER: US 010/354,240
CURRENT APPLICATION NUMBER: US 09/142,524
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-346-162-100

| Sequence 100, Application US/10346162
| Sequence 100, Application US/10346162
| Publication NO US20030224390A1
| GENERAL INFORMATION:
| APPLICANT: FARO BIO USA, INC.
| APPLICANT: BARNETT, Thomas R. APPLICANT: BARNET, BARNET, Senjamin
| TITLE OF INVENTION: THEREOF
| FILE REFERENCE: PAIGE=1H
| CURRENT APPLICATION NUMBER: US/10/346,162
| FILE REFERENCE: 2003-01-17
| PRIOR PLING DATE: 2000-07-12
| PRIOR FILING DATE: 2001-05-21
| NUMBER OF SEQ ID NOS: 268
| SEQ ID NO 100
| LENGTH: 16
                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                    ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
46.5%; Score 53; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.42;
Matches 10; Conservative 0; Mismatches 0; Indels
                    DB 14; Length 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // LOCATION: (1). (15)
// OTHER INFORMATION: Cryjl peptide, Figure 1, Row 51
US-10-354-240-65
                      Score 58; DB 14;
Pred. No. 0.072;
                                                                      1; Mismatches
                                                                                                                                                                                                                                                                                     Sequence 65, Application US/10354240 publication No. US20030185847A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Cryptomeria japonica
                    50.9%;
                    Query Match 50.9
Best Local Similarity 90.0
Matches 9; Conservative
                                                                                                                                               6 ANNNYDPWTI 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11 YAIGGSSNPT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 YAIGGSSNPT 10
                                                                                                                      1 ANNNYDPWSI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION
                                                                                                                                                                                                                                                                    US-10-354-240-65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 15
                                                                                                                         δ
                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ద
                                                                                                                                                                                                                                   APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Name, Akinori
APPLICANT: Name, Akinori
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILLE REFERENCE: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: US 09/142,524
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFWARE: PatentIn version 3.1
SEQ ID NO 64
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Sone, Toshio

APPLICANT: Kume, Akinori

APPLICANT: Kume, Akinori

APPLICANT: Mama, Akiko

APPLICANT: Iwama, Akiko

APPLICANT: Iwama, Akiko

APPLICANT: Kino, Kohsuke

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

FILE REFERENCE: SPO-103D1

CURRENT FILING DATE: 1093-01-29

PRIOR FILING DATE: 1997-03-10

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: Patentin version 3.1

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 71.9%; Score 82; DB 14; Length 15; Best Local Similarity 93.3%; Pred. No. 1.5e-05; Matches 14; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LOCATION: (1). (15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION: (1). (15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 50
US-10-354-240-64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 3
US-10-354-240-62
IS-10-354-240-62
Septimence 62, Application US/10354240
Publication No. US/2030185847A1
GENERAL INFORMATION:
                                                                                                                                                                 ; Sequence 64, Application US/10354240; Publication No. US20030185847A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6 DPWSIYAIGGSSNPT 20
1 ANNNYDPWSIYAIGG 15
                         1 DPWTIYAIGGSSNPT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: MISC_FEATURE
                                                                                                                                             US-10-354-240-64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
  δ
                                             원
```

```
NUMBER OF SEQ ID NOS: 117
; SEQ ID NO 515
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; ORGANISM: Homo sapiens
US-10-115-123-515
                                                                                                                                                                                                                                                                                       5 SNGNLDPWA 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SNGNLDPWA 13
                                                                                                                                                                                                                                             1 ANNNYDPWS 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 ANNNYDPWS 9
                                                                                                                                                                Best Local Similarity
Matches 5; Conserv
                                                                                 i US-10-012-542-515
                                                                                                                                                                                                                                                                                                                                                                                       US-10-115-123-515
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-300-694A-69
                                                                                                                                               Query Match
                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
APPLICANT: Graddis, Thomas
APPLICANT: Laus, Reiner
APPLICANT: Diegel, Michael
APPLICANT: Diegel, Michael
APPLICANT: Ujdovic, Damir
TITLE OF INVENTION: Compositions and Methods Employing Alternative
TITLE OF INVENTION: Reading Frame Polypeptides for the Treatment of
FILE REFREEMENT APPLICANT: Used: 11311.1003U
CURRENT APPLICANT: US/10/794,514A
CURRENT FILING DATE: 2004-03-05
NUMBER OF SEQ ID NOS: 733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WS-10-012-542-515

i Sequence 515, Application US/10012542

j Publication No. US20030044851A1

i GENERAL INFORMATION:

APPLICANT: Ruben et al.

i TITLE OF INVENTION: 94 Human Secreted Proteins

FILE REFERENCE: P2029P1

CURRENT FILING DATE: 2001-12-12

PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/089,507

PRIOR FILING DATE: BARLIER FILING DATE: 1998-06-16

PRIOR PILING DATE: EARLIER FILING DATE: 1998-06-16

PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-22

NUMBER OF SEQ ID NOS: 53.2

NUMBER OF SEQ ID NOS: 53.2
                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                DB 15; Length 16;
90;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 37; DB 17; Length 15;
Pred. No. 1.2e+02;
                                                                                                                                            5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; OTHER INFORMATION: Made in a lab from synthetic material
US-10-794-514A-65
                                                                                                                                            5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 65 LENGTH: 15
                                                                                                Score 38;
Pred. No.
                                                                                                                                                                                                                                                                                                                                 US-10-794-514A-65
; Sequence 65, Application US/10794514A
; Publication No. US20050112134A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             32.5%;
                                                                                           Query Match 33.3%;
Best Local Similarity 33.3%;
Matches 5; Conservative :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic
US-10-346-162-100
                                                                                                                                                                                         1 ANNNYDPWSIYAIGG 15
                                                                                                                                                                                                                    Query Match
Best Local Similarity 53.8%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8 WSIYAIGGSSNPT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3 WRPCAAGGSSSPS 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE
                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                    ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 37; DB 14; Length 16;
Pred. No. 1.3e+02;
2; Mismatches 2; Indels
32.5%; Score 37; DB 14; Length 16; 55.6%; Pred. No. 1.3e+02;
                                                    2; Indels
                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: 94 Human Secreted Proteins
FILE REFERENCE: P2029G30APID2
CURRENT APPLICATION NUMBER: US/10/115,123
CURRENT FILING DATE: 2002-04-04
FRIOR APPLICATION NUMBER: PCT/US99/13418
FRIOR APPLICATION NUMBER: 60/089,507
FRIOR PILING DATE: 1999-06-15
FRIOR FILING DATE: 1998-06-16
FRIOR FILING DATE: 1998-06-22
FRIOR APPLICATION NUMBER: 60/090,112
FRIOR FILING DATE: 1998-06-22
FRIOR APPLICATION NUMBER: 60/090,113
FRIOR FILING DATE: 1998-06-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Duke University
APPLICANT: Grinstaff, Mark W.
APPLICANT: Kenan, Daniel J.
APPLICANT: Walsh, Blisabeth B.
APPLICANT: Middleton, Crystan
ITILE OF INVENTION: INTERPACIAL BIOMATERIALS
FILE REFERENCE: 180/143/2
CURRENT APPLICATION NUMBER: US/10/300,694A
CURRENT APPLICATION NUMBER: US 60/331,843
PRIOR FILING DATE: 2001-11-20
                                                 2; Mismatches
                                                                                                                                                                                                                                                                                      Sequence 515, Application US/10115123
Publication No. US20030065151A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 69, Application US/10300694A Publication No. US20030185870A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 32.5%;
55.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 532
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 515
LENGTH: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 55.0
Est Local Similarity 55.0
                                                    5; Conservative
```

```
US-10-656-250-109

Sequence 109, Application US/10656250

Publication No. US200069951A1

Sequence 109, Application US/10656250

Publication No. US200069951A1

APPLICANT: FOWIKES, Dana M.

APPLICANT: FREINGER, Veffrey A.

APPLICANT: FREINGER, Robin P.

TITLE OF INVENTION: IDENTIFICATION OF DRUGS USING COMPLEMENTARY COMBINATORIAL

TITLE OF INVENTION: LIBRARIES

FILE REFERENCE: POWIKES=4D

CURRENT FILING DATE: 2003-09-08

PRIOR PLICATION NUMBER: 09/050,359

PRIOR PLICATION NUMBER: 09/050,359

PRIOR PLING DATE: 1999-10-31

PRIOR PLING DATE: 1999-10-31

PRIOR PLING DATE: 1999-10-31

PRIOR PLING DATE: 1996-10-31

WUMBER OF SEQ ID NOS: 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: KAY, Brian K.
APPLICANT: FRELINGER, Jeffrey A.
APPLICANT: FYDE-DERUYSCHER, Robin P
TITLE OF INVENTION: IDENTIFICATION OF DRUGS USING COMPLEMENTARY COMBINATORIAL
TITLE OF INVENTION: LIBRARIES
                                                                                                                                                                                                                                                                             ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ĥ
                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; OTHER INFORMATION: alcohol dehydrogenase binding peptide from library US-10-656-250-109
                                                                                                                                                                   ; OTHER INFORMATION: beta-glucosidase binding peptide from library
US-10-656-250-101
                                                                                                                                                                                                                                                                             7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30.7%; Score 35; DB 17; Length 15;
43.8%; Pred. No. 2.4e+02;
cive 4; Mismatches 3; Indels
                                                                                                                                                                                                                                       Length 15
                                                                                                                                                                                                                                                                           3; Indels
                                                                                                                                                                                                                                     Score 35; DB 17;
Pred, No. 2.4e+02;
                                                                                                                                                                                                                                                                           4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILE REFERENCE: FOWLKES=4D
CURRENT APPLICATION NUMBER: US/10/656,250
PRIOR APPLICATION NUMBER: 08/740,671
PRIOR FILING DATE: 1996-10-31
NUMBER OF SEQ ID NOS: 180
SOFTWARE: Patentin version 3.2
SEQ ID NO 101
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 13
US-10-656-250-98
; Sequence 98, Application US/10656250
; Publication No. US20050069951A1
; GENERAL INFORMATION:
; APPLICANT: FOWLKES, Dana M.
                                                                                                                                                                                                                                     Query Match
Best Local Similarity 43.8%;
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 NNNYDPWSIYAIGGSS 17
                                                                                                                                                                                                                                                                                                                    2 NNNYDPWSIYAIGGSS 17
                                                                                                                                                                                                                                                                                                                                                        14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SSSFKPWPIYL--GSS
                                                                                                                                                                                                                                                                                                                                          1 SSSFKPWPIYL--GSS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 43.8
Matches 7; Conservative
                                                                                                                                        ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                    Sequence 101, Application US/10656250
Publication No. US20050069951A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: FOWIKES, Dana M.
APPLICANT: RAY, Brian K.
APPLICANT: HYDE-DERUYSCHER, Jeffrey A.
APPLICANT: HYDE-DERUYSCHER, Robin P
TITLE OF INVENTION: LIBRARIES
TITLE OF INVENTION: LIBRARIES
                                                                                                                                                                                                                       ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30.7%; Score 35; DB 15; Length 15; 45.5%; Pred. No. 2.4e+02; tive 3; Mismatches 3; Indels
                                                                                                                                                                               Length 13;
                                                                                                                                                                                                                     1; Indels
                                                                                                                      OTHER INFORMATION: Polycarbonate-binding peptide 69
                                                                                                                                                                             h 30.7%; Score 35; DB 14; Similarity 71.4%; Pred. No. 2.1e+02; 5; Conservative 1; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: FOWLKES=4D
CURRENT APPLICATION NUMBER: US/10/656,250
CURRENT FILING DATE: 2003-09-08
PRIOR APPLICATION NUMBER: 09/050,359
PRIOR FILING DATE: 1998-03-31
PRIOR PILING DATE: 1999-10-31
    SOFTWARE: Patentin version 3.2
SEQ ID NO 69
LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; OTHER INFORMATION: synthetic US-10-346-162-142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 30.7
Best Local Similarity 45.5
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7 PWSIYAIGGSS 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              || :: :|| |
PWLMHYLGGGS 14
                                                                                  ORGANISM: Artificial
                                                                                                                                                                               Query Match
Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                             2 NNNYDPW 8
                                                                                                                                                                                                                                                                                 US-10-656-250-101
                                                                                                                                            US-10-300-694A-69
                                                                  PRT
                                                                                                      FEATURE:
                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                             ò
```

```
Search completed: June 20, 2005, 15:55:18
Job time : 53.45 secs
                                                                                       ; TYPE: PRT
; ORGANISM: Maackia amurensis
US-10-468-543-25
                                                                                                                                                                                                                                                                                            ::[|||
6 HSYDPW 11
                                                                                                                                                                                                                                                                   3 NINYDPW 8
                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 7, Application US/10468543
Publication No. US20040091938A1
GENERAL INFORMATION:
APPLICANT: Irimura, Tateuro
APPLICANT: Irimura, Tateuro
APPLICANT: Yim, Mijung
APPLICANT: Yim, Mijung
APPLICANT: Ono, Takashi
TITLE OF INVENTION: Lectins for Analyzing Sugar Chains and Method of Using the Same FILE REFERENCE: 03-786
CURRENT APPLICATION NUMBER: US/10/468,543
CURRENT PILING DATE: 2003-08-20
PRIOR APPLICATION NUMBER: JP 2001-044221
PRIOR APPLICATION NUMBER: 3001-044221
NUMBER OF SEQ ID NOS: 95
SOFTWARE: Patentin Version 3.1
SEQ ID NO 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 15
US-10-468-543-25
US-10-468-543-25
Sequence 25, Application US/10468543
Publication No. US20040091938A1
GENERAL INFORMATION:
APPLICANT: Trimura, Tateuro
APPLICANT: Wim, Mijung
APPLICANT: Ono, Takashi
TITLE OF INVENTION: Lectins for Analyzing Sugar Chains and Method of Using the Same PILE REFERENCE: 03-786
CURRENT APPLICATION NUMBER: US/10/468,543
CURRENT APPLICATION NUMBER: UP 2001-044221
PRIOR FILING DATE: 2003-08-20
PRIOR FILING DATE: 2001-02-20
                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                              ; OTHER INFORMATION: beta-glucosidase binding peptide from library US-10-656-250-98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                        29.8%; Score 34; DB 17; Length 15; 62.5%; Pred. No. 3.5e+02; ive 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28.9%; Score 33; DB 15; Length 11; 66.7%; Pred. No. 3.6e+02; ive 2; Mismatches 0; Indels
CURRENT FILING DATE: 2003-09-08
PRIOR APPLICATION WUNBER: 09/050,359
PRIOR FILING DATE: 1998-03-31
PRIOR FILING DATE: 1998-03-31
PRIOR FILING DATE: 1997-10-31
PRIOR FILING DATE: 1997-10-31
PRIOR FILING DATE: 1997-10-31
NUMBER OF SEQ ID NOS: 180
SOFTWARE: Patentin version 3.2
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Maackia amurensis
                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 62.5
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                4 NYDPWSIY 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           : | | | | | | 4 SYAPWPIY 11
                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ::||||
6 HSYDPW 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3 NNYDPW 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-468-543-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-468-543-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
```

```
Gaps
                                                                                                                                                            ;
                                                                                                                             Length 11;
                                                                                                                                                         0; Indels
                                                                                                                          Score 33; DB 15;
Pred. No. 3.6e+02;
2; Mismatches 0;
NUMBER OF SEQ ID NOS: 95
SOFTWARE: Patentin version 3.1
SEQ ID NO 25
LENGTH: 11
                                                                                                                          Query Match

Best Local Similarity 66.7%;
Matches 4; Conservative
```

THIS PAGE BLANK (USPTO)

```
Sequence 50, Appl
                                                     June 20, 2005, 14:04:11; Search time 16.15 Seconds (without alignments) 92.445 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                   Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                       Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                      Issued Patents AA:*

(cgn2_6/ptodata/1/laa/5A_COMB.pep:*
(cgn2_6/ptodata/1/laa/5B_COMB.pep:*
(cgn2_6/ptodata/1/laa/6A_COMB.pep:*
(cgn2_6/ptodata/1/laa/6B_COMB.pep:*
(cgn2_6/ptodata/1/laa/PCTUS_COMB.pep:*
(cgn2_6/ptodata/1/laa/PCTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-467-023-50
US-09-142-524D-63
US-09-142-524D-64
US-09-142-524D-64
US-08-467-023-25
US-08-467-023-51
US-08-467-023-51
US-08-20-448A-55
US-08-20-448A-55
US-08-20-448A-55
US-08-175-069A-55
US-08-175-069A-55
US-08-175-069A-55
US-08-175-069A-55
US-08-175-069A-55
US-08-175-069A-55
US-08-861-153A-10
US-09-379-665D-10
US-09-115-123-515
US-10-115-123-515
US-10-115-123-515
US-09-069-827A-103
US-09-069-827A-103
US-09-069-827A-103
US-09-069-827A-103
US-09-069-827A-103
US-09-069-827A-103
US-09-069-827A-103
US-09-620-091-58
US-09-620-091-81
US-09-620-091-81
                                                                                                                                                                                Total number of hits satisfying chosen parameters:
                                                                                                                                                               513545 seqs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                          SUMMARIES
                                                                                                                                                                                                                              Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                    protein search, using sw model
                                                                                                                1 ANNNYDPWSIYAIGGSSNPT 20
                                                                                                                                   BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                          US-09-202-464-27
114
                                                                                                                                                                                                                                                                                                                                                                                                                     Length
                                                                                                                                                                                                   seq length: 0
seq length: 20
                                                                                                                                                                                                                                                                                                                                                                                                            Query
Match 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Scoring table:
                                                                                            Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                      Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                   1
                                                                                                                                                                                                     Minimum DB
Maximum DB
                                    OM protein
                                                                                                                Sequence:
                                                                                                                                                                Searched:
                                                                                                                                                                                                                                                                        Database
                                                       Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Result
                                                                                                                                                                                                                                                                                                                                                                                                                      Š.
```

1, *1* 12,

Sequence Sequence Sequence Sequence

10 26.3 10 4 05.09-19.36 Sequence 50.09-19.30 Seque	Apple		
10 26:3 10 4 10:0-20.091-56 Sequence 20 26:3 10 4 10:0-20.091-56 Sequence 20 26:3 15 4 10:0-20.091-56 Sequence 20 26:3 15 4 10:0-069-827A-100 Sequence 20 26:3 17 1 10:0-069-827A-100 Sequence 20 26:3 17 1 10:0-069-827A-100 Sequence 20 26:3 17 1 10:0-06-928-911-16 Sequence 20 26:3 17 4 10:0-9-28-008B-203 Sequence 20 26:3 17 5 ECT-USS4-05591-16 Sequence 20 26:3 17 4 10:0-9-28-008B-203 Sequence 20 26:3 17 5 ECT-USS4-05591-16 Sequence 20 26:3 17 5 ECT-USS4-0591-16 Sequence 20 26:3 17 5 ECT-USS4	6006 000000000000000000000000000000000		
10 26.3 10 4 US-09-620-091-56 30 26.3 12 4 US-09-620-091-56 30 26.3 15 4 US-09-620-091-60 30 26.3 15 4 US-09-620-091-60 30 26.3 15 4 US-09-620-091-60 30 26.3 17 1 US-09-827A-10 30 26.3 17 1 US-08-370-567-8 30 26.3 17 1 US-08-310-167-8 30 26.3 1 US-08-3		a H	
RESULT 1 RESULT 1 RESULT 1 APPLICANT: Policetion (1) APPLICANT: Policet, 3 APPLICANT: Policet, 3 APPLICANT: Bond, Juli APPLICANT: Policet, 3 APPLICANT: Policet, 3 APPLICANT: Bond, Juli APPLICANT: Bond APPLICANT: Bond APPLICATION: A124 REGISTRATION NUMBER: FILING DATE: June 6, CLASSIFICATION NUMBER: FILING DATE: June APPLICATION NUMBER: FILING DATE: June APPLICATION NUMBER: FILING DATE: GIT 122 TELEPRAN: (617) 227- INFORMATION FOR SEQ ID N SEQUENCE CHARACTERSTIFI LENGTH: A104 NUMBER: Jane B. REGISTRATION APPLICATION NUMBER: FILING DATE: A104 APPLICATION OF A104 APPLICATI	3 US-08-630-052-12 5 PCT-US95-09307-13 0S-09-561-3668-2 4 US-10-114-176-23 0S-10-561-3688-2 4 US-09-620-091-564 US-09-620-091-564 US-09-620-091-564 US-09-069-827A-1 4 US-09-069-827A-1 4 US-09-069-827A-1 1 US-08-370-567-8 1 US-08-370-567-8 2 US-09-6280-031-80-80-80-80-80-80-80-80-80-80-80-80-80-	IGNMENTS roteins And ar Pollen tical Corpor tical Corpor 0, Version #	ds 1
RESULT 1 OSCIPLED SECULATION RESULT 1 OSCIPLED SECULATION APPLICANT: BOND, APPL		iton (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	lo aci
RESULT 1 REPLICANT: Ga APPLICANT: Ga APPLICANT: Ga APPLICANT: Ga APPLICANT: Ba APPLICANT: BB APPLICANT:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	icatification; in the property of the property	amir aci inee
RESULT 1 REPLICANT: APPLICANT: APPLICAN	000000000000000000000000000000000000000	A PART OF THE PROPERTY OF THE	20 mino : 1 YPE: YPE:
RESULT RESULT 8443336 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2		10.000.000.000.000.000.000.000.000.000.	LENGTH: TYPE: a. TOPOLOGY LECULE T AGMENT T
#5 ************************************	8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Segue-1 Segue-1 Segue-1 Segue-1 General Application of the segue-1 Application of the segue-1 Applicat	MOI
	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	RESULT 1 US-08-467 Sequence S	; TY ; TY ; TO

```
APPLICANT: Dealian, Akiko
APPLICANT: Kino, Kohauko
APPLICANT: Kino, Kohauko
APPLICANT: Kino, Kohauko
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 62
                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
APPLICANT:
POLIOCK, Joanne,
APPLICANT:
Bond, Julian F.;
APPLICANT:
Bond, Garman, Richard D;
APPLICANT:
Ruo, Mai-Chang;
APPLICANT:
Pauer, Andrew;
APPLICANT:
Brauer, Andrew;
APPLICANT:
Brauer, Andrew;
APPLICANT:
Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCES: 261
CORRESPONDENCES LIMMLOGIC Pharmaccutical Corporation, Inc.
STREET: 610 Lincoln St
                                                                         Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Indels
                                                                                                                  0: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; LOCATION: (1). (15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 48
US-09-142-524D-62
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 50 US-09-142-524D-64
                                                                       DB 4; I
4.8e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 58; DB 4;
Pred. No. 0.021;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1; Mismatches
                                                                                                                  Mismatches
                                                                         Score 82;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 258, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Boollock, Joanne;
APPLICANT: Bond, Julian F.;
                                                                                                                                                                                                                                                                                                              ; Sequence 62, Application US/09142524D
; Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              50.9%;
                                                                     Query Match
Best Local Similarity 93.3%;
Matches 14; Conservative
                                                                                                                                                                                   1 DPWTIYAIGGSSNPT 15
                                                                                                                                                            6 DPWSIYAIGGSSNPT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 90.0
                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 ANNNYDPWSI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ANNYDPWTI 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STATE: MA
                                                                                                                                                                                                                                                                                            US-09-142-524D-62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-467-023-258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 15
                                                                                                                                                                 8
                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       င်
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                       APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERNE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 63
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Sone, Toshio
APPLICANT: Sone, Akinori
APPLICANT: Sone, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Wama, Akiko
APPLICANT: Ivana, Akiko
APPLICANT: Ivana, Akiko
APPLICANT: Ivana, Akiko
APPLICANT: Ivana, Akiko
APPLICANT: Son-103
CURRENT SPO-103
CURRENT FILING DATE: 1998-09-09
PRIOR FLING DATE: 1997-00740
PRIOR FLING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: PATENTIN VERSION 3.1
SEQ ID NO 64
LENGTH: 15
                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .;
0
                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                  ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                     97.4%; Score 111; DB 3; Length 20; 95.0%; Pred. No. 2.7e-10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
74.6%; Score 85; DB 4; Length 15;
Best Local Similarity 93.3%; Pred. No. 1.7e-06;
Matches 14; Conservative 1; Mismatches 0; Indels
                                                                                                0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCATION: (1). (15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 49
                                                                                                1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-142-524D-64
Sequence 64, Application US/09142524D
Patent No. 6719976
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                     US-09-142-524D-63
; Sequence 63, Application US/09142524D
; Patent No. 6719976
                                                                                                                                          1 ANNNYDPWSIYAIGGSSNPT 20
                                                                                                                                                                   1 ANNNYDPWTIYAIGGSSNPT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 ANNYDPWSIYAIGG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 ANNYDPWTIYAIGG 15
                                                   Query Match
Best Local Similarity 95.0°
Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: MISC_FEATURE LOCATION: (1)...(15)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-142-524D-63
             US-08-467-023-50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                             ઠે
```

```
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Kuo, Mel-U-mei H.;
APPLICANT: Kuo, Mel-U-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Alergenic Proteins And Peptides From TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St.
COTTY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER: Floppy disk
COMPUTER: EN PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 50.9%; Score 58; DB 3; Length 19; 90.0%; Pred. No. 0.027;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0; Indels
              MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
SOFTWARE: US/08/467,023
FILING DATE: US/08/467,023
FILING DATE: US/08/467,023
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remilland
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-740
TELEFAX: (617) 227-541
INFORMATION FOR SEQ ID NO: 258:
SEQUENCE CHARATTER.STICS:
LENGTH: 19 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 49, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffeth, Irwin J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Griffeth, Irwin J.;
Pollock, Joanne;
Bond, Julian F.;
Garman, Richard D;
Kuo, Mei-Chang;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 90.0
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: peptide
PRAGMENT TYPE: internal
US-08-467-023-258
COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 ANNNYDPWSI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |||||||||||||
10 ANNNYDPWTI 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
```

```
US-09-142-524D-65

i Sequence 65, Application US/09142524D

j Sequence 65, Application US/09142524D

j Sequence 67, Application US/09142524D

j Patent No. 6719976

j GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Name, Akinori

APPLICANT: Wino, Kohauke

TITLE OF INFUNITION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INFUNITION: Peptide-Based Immunotherapeutic Agent for Treating Disea

TITLE OF INFUNITION: Peptide-Based Immunotherapeutic Agent for Treating Disea

TITLE OF INFUNITION NUMBER: US/09/142,524D

CURRENT APPLICATION NUMBER: PCT/JP97/00740

PRIOR FILING DATE: 1997-03-10

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 65

LENGTHARE: Patentin version 3.1

LENGTHARE: Patentin version 3.1

LENGTHARE: Patentin Version 3.1

LENGTHARE: Patentin Version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                 Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Indels
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REGISTRATION NUMBER: 38,872
RELECOMMUNICATION: 1000 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEPAX: (617) 227-541
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CRARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; IOCATION: (1)...(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 51
US-09-142-524D-65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 46.5%; Score 53; DB 4; Best Local Similarity 100.0%; Pred. No. 0.12; Matches 10; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                              Query Match 50.9%; Score 58; DB 3; Best Local Similarity 90.0%; Pred. No. 0.029; Matches 9; Conservative 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 51, Application US/08467023
Patent No. 6090386
GENBRAL INPORMATION:
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Bond, Julian F.;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                        MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 ANNNYDPWSI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ||||||||||||||||11 ANNNYDPWTI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 YAIGGSSNPT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11 YAIGGSSNPT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                  TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                US-08-467-023-49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-467-023-51
```

```
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 55:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 amino acids
TYPE: amino acid
TYPE: 17 inear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER: IM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          43.9%;
72.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 72.7
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 NNNYDPWSIYA 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7 NNNYDRWGTYA 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-08-290-448A-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-290-448A-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:

APPLICANT: Rogers, Bruce
APPLICANT: Ripper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Ruo, Mei-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, suite 510
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
AIPLICANT: Powers, Steven P.
AITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc. STREET: 610 Lincoln St.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 46.5%; Score 53; DB 3; Length 20; Best Local Similarity 100.0%; Pred. No. 0.16; Matches 10; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:

MEDIUM TYPE: Flopy disk

MEDIUM TYPE: Flopy disk

COMPUTER: LBM PC Compatible

OPERATING SYSTEM: PC-DOS/NG-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,023

FILING DATE: June 6, 1995

CLASSIFICATION NUMBER: 08/350,225

PRIOR APPLICATION NUMBER: 08/350,225

PRIOR APPLICATION NUMBER: 38,872

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remillard

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remillard

TELECOMMUNICATION INFORMATION:

TELEFAX: (617) 227-7400

TELEFAX: (617) 227-740

TELEFAX: (617) 227-740

TELEFAX: (617) 227-7591

INFORMATION FOR SEQ ID NO: 51:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 amino acids

TURE TO SECOULD AND ACIDS TO SECOULD AND ACIDS AND ACI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET: 60 State Street, suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: PR PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 9
US-08-290-448A-55
; Sequence 55, Application US/08290448A
; Patent No. 5676954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11 YAIGGSSNPT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 YAIGGSSNPT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              amino acid
                                                                                                                                                                                                                                                                                                                                                             CITY: Waltham
STATE: MA
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-467-023-51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  硆
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-290-488A

US-08-290-488A

Sequence 55, Application US/08290448A

Patent No. 569204

GENERAL INFORMATION:

APPLICANT: Riapper, David G.

APPLICANT: Rafar, Thorunn

APPLICANT: Bardar, Thorunn

APPLICANT: Wei-chang

TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses

NUMBER OF SEQUENCES: 93

CORRESPONDENCE ADDRES: 93

CORRESPONDENCE ADDRES: 93

CORRESPONDENCE ADDRES: 93

CONTRIP: Boston

STATE: Massachusetts

CONTRIP: Boston

STATE: Massachusetts

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION NUMBER: US/08/290,448A

FILING DATE: August 15, 1994

PRIOR APPLICATION NUMBER: US 07/325,365

FILING DATE: Max Ch 17, 1989

RTING DATE: May 29, 1990

REGISTRATE AMY E. Mandragourae

REGISTRATION NUMBER: 15, 1994

RTORNEY/AGENT INFORMATION:

NAME: AMY E. Mandragourae

REGISTRATION NUMBER: 161018CN

REPERENCE AND NUMBER: 161018CN

REPERENCE AND NUMBER: 161018CN

REPERENCE AND NUMBER: 161018CN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 50; DB 1; Length 17; Pred. No. 0.39;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
PRICATION NUMBER: US/08/290,448A
PRIOR PAPLICATION DATE: August 15, 1994
PRIOR APPLICATION DATE: APPLICATION DATE: APPLICATION NUMBER: US 07/529,951
FILING DATE: MAY 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: MARCH 17, 1989
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. MANCHAGOURAS
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CN
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
```

```
US-08-461-939B-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;
0
                                                                                                                                                                                                                                                                                                                                             Sequence 55, Application US/08175069A
Patent No. 5776761
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Klapper, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Kuo, Mel-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 60 State Street
                                                                                                                                                                           ö
                                                                                                                                 43.9%; Score 50; DB 1; Length 17; 72.7%; Pred. No. 0.39;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1; Length 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3; Indels
                                                                                                                                                                           3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/175,069A
FILING DATE: December 29, 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/529,951
FILING DATE: March 17, 1989
AFFICATION NUMBER: US 07/325,365
FILING DATE: March 17, 1989
AFFORNEY/AGENT INFORMATION:
NAME: Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018DV
TELECOMMULICATION INFORMATION:
TELECHONE: (617)227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 50; DB
Pred. No. 0.39
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        43.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 amino acids
LENGTH: 17 amino acids
                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8; Conservative
                                                  MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: Boston
STATE: Massachusetts
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                                                                                                                                                              2 NNNYDPWSIYA 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2 NNNYDPWSIYA 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NNNYDRWGTYA 17
                                                                                                                                                                                                                                                  7 NNNYDRWGTYA 17
                                                                                                                               Query Match
Best Local Similarity
Matches 8; Conserva
                  TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
Matches 8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02109-1875
                                                                              ; FRAGMENT TYFE
US-08-290-448A-55
                                                                                                                                                                                                                                                                                                                             US-08-175-069A-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-175-069A-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
```

RESULT 12

```
APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rainer, Thorunn
APPLICANT: Rainer, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Methods For Treating Sensitivity To A
TITLE OF INVENTION: Protein Allergen Using Peptides Which Inlcude A T Cell Epitope
NUMBER OF SEQUENCES:
OCRRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 55, Application US/08464000
Patent No. 6335020
GENERAL INFORMATION:
APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Kafnar, Thorunn
APPLICANT: Kuo, Mei-Chang
ITTLE OF INVENTION: Allargenic Peptides from Ragweed Pollen
NUMBER OF SEQUENCES: 93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 50; DB 3; Length 17;
Pred. No. 0.39;
0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARES PATENTIN RALES #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/461,939B
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/464,000
FILING DATE: 05-JUN-1995
APPLICATION NUMBER: US 08/290,448
FILING DATE: 15-AUG-1994
APPLICATION NUMBER: US 07/529,951
FILING DATE: 19-MAY-1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: 17-MAR-1989
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IMI-018CND
                                                                                                                                                                                                                                             AUDKESSEE: LAHIVE & COCKFIELD, LLP STREET: 28 State Street CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LAHIVE & COCKFIELD, LLP
                                                                                                                                                                                                                                                                                                                                                    COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
; Sequence 55, Application US/08461939B
; Patent No. 6335019
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REPERENCE/DOCKET UMBER: IM
TELECOMMUNICATION:
TELEPHONE: (617)227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              43.9%;
ilarity 72.7%;
Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: (617)227-74(
TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-461-939B-55
                                                                                                                                                                                                                                                                                                                                Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2 NNNYDPWSIYA 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NNNYDRWGTYA 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-08-464-000-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH:
```

```
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-379-665D-10

Sequence 10, Application US/09379665D

Sequence 10, E050184

GENERAL INFORMATION:

APPLICANT: National Renewable Energy Laboratory

TITLE OF INVENTION:

FILE REFERENCE: NREL 98-37

CURRENT APPLICATION NUMBER: US/09/379,665D

CURRENT FILING DATE: 1999-08-24

NUMBER OF SEQ ID NOS: 12

SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 36.8%; Score 42; DB 4; Length 17; Best Local Similarity 37.5%; Pred. No. 6.4; Matches 6; Conservative 5; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 50; DB 3; Length 17;
Pred. No. 0.39;
0; Mismatches 3; Indels
                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Eloppy disk
COMPUTER: Eloppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/464,000
FILING DATE: 05-JUN-1995
PRIOR APPLICATION NUMBER: US 08/290,448
FILING DATE: 15-AUG-1994
APPLICATION NUMBER: US 07/529,951
FILING DATE: 12-AUG-1994
APPLICATION NUMBER: US 07/529,365
FILING DATE: 17-MAR-1999
ATTONREY/ABMATION:
ANDER: MANCE: MANCE ANDER: US 07/325,365
FILING DATE: 17-MAR-1999
ATTONREY/ABMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Amy E. Mandragourae
REGISTRATION VIMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CN2
TELECOMMUNICATION INFORMATION:
TELEPAX: (617)227-540
INFORMATION FOR SEQ ID NO: 55:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4 NYDPWSIYAIGGSSNP 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |:| |: : ||: :|
1 NWDNWNAWGPGGNPDP 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 72.7%;
Matches 8; Conservative
60 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 17 amino acids
TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                  Boston
Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7 NNNYDRWGTYA 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 NNNYDPWSIYA 12
                                                                 COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: DEX 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-379-665D-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-08-464-000-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
```

RESULT 15

```
Sequence 10, Application US/0861153A

Patent No. 6723694

GENERAL INFORMATION: SHORT PEPTIDES WHICH SELECTIVELY MODULATE INTRACELLULAR SIGNALING.

TITLE OF INVENTION: SHORT PEPTIDES WHICH SELECTIVELY MODULATE INTRACELLULAR SIGNALING.

TITLE OF INVENTION: SHORT PEPTIDES WHICH SELECTIVELY MODULATE INTRACELLULAR SIGNALING.

TITLE OF INVENTION: SHORT PEPTIDES WHICH SELECTIVELY MODULATE INTRACELLULAR SIGNALING.

TITLE OF INVENTION: SHORT PEPTIDES WHICH SELECTIVELY MODULATE INTRACELLULAR SIGNALING.

TURBENT FILING DATE: 1997-05-21

SOFTWARE: Patentin version 3.1

SOFTWARE:
```

us-09-202-464-29.rapb

```
June 20, 2005, 14:14:01; Search time 53.45 Seconds (without alignments) 143.678 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/USO7_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/USO7_PUBCOMB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/USO6_PUBCOMB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/USO6_PUBCOMB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/USO7_NEW_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/USO7_NEW_PUB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             332641
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1714042 segs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                             OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                      US-09-202-464-29
101
1 ILSEGNSFTAPNDSDKKEVT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                                                                      Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Database :
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Searched:
                                                                                                                                                                                                                        Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ~
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Appl	Appl	Appl	Appl	App	App	App	Appl	Appl	Appl	App
	67.	68,	99	69	117,	113,	112,	. 09	60,	22,	103,
Description	Sequence	Sequence 68,	Sequence				Sequence				Sequence
ΠD	US-10-354-240-67	US-10-354-240-68	US-10-354-240-66	US-10-354-240-69	US-10-354-240-117	US-10-884-355A-113	US-10-884-355A-112	US-09-966-459A-60	US-10-323-412-60	US-10-660-370-22	US-10-660-370-103
80	14	14	14	14	14	17	11	10	16	11	11
\$ Query e Match Length DB I	15	15	15	15	15	17	19	15	15	17	17
Query Match	66.3	61.4	47.5	36.6	32.7	32.7	32.7	31.7	31.7	31.7	31.7
Score	67	62	48	37	33	33	33	32	32	32	32
Result No.		8	m	4	S	9	7	80	6	10	11

Appl Appl 1, App 5, App	53, App 57, App 98, App 98, App 17, App	Appli 6, App 6, App 5, App , Appl		Appl Appl Appl Appl Appl Appl
16 9 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	449944	្ឋភភភភភភ	10004444	2272927795
Sequence Sequence Sequence Sequence Sequence	Sequence Sequence Sequence Sequence Sequence	Sequence Sequence Sequence Sequence Sequence Sequence	Sequence Sequence Sequence Sequence Sequence Sequence	Sequence Seq
US-10-172-425B-31 US-10-432-422-67 US-10-632-706-141 US-10-632-706-145 US-10-632-706-149	US-10-632-706-153 US-10-632-706-157 US-10-057-789-298 US-10-212-628-298 US-10-172-4258-44 US-10-177-893-62	US-09-739-852-8 US-10-354-240-116 US-10-203-915A-126 US-10-886-773-105 US-10-160-232-16 US-10-281-478A-26	US-10-245-132A-26 US-10-286-132A-26 US-10-477-377-9 US-10-084-813-202 US-10-084-813-429 US-10-084-813-439 US-10-084-813-430	US-10-084-407A-19 US-10-094-407A-19 US-10-383-930-17 US-10-797-895A-81 US-10-080-100-23 US-10-416-797-19 US-09-966-955A-32 US-09-966-956-940-52
14 15 16 16	16 14 14 17 17	9 4 7 7 4 4 4 4 4	* 4 0 4 4 4 4 4	112 113 113 10 10
14 115 117	71 70 70 70 70 70 70	21 21 21 21 21 21 21	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2002 14 13 88 13
30.7 30.7 30.7 30.7	30.7 30.7 30.7 29.7 29.7	28.7 28.7 28.7 28.7 28.7	22 22 22 22 22 22 22 22 22 22 22 22 22	288.7 288.7 200.7
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	31 31 30 30 30	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	299 299 28 28 28 28 28
112 113 115 116	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 2 2 2 2 2 4 4 2 5 4 5 4 5 6 5 6 5 6 5 6 6 6 6 6 6 6 6 6		, E E 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

ALIGNMENTS

```
Sequence 67, Application US/10354240

Sequence 67, Application US/10354240

Publication No. US20030185847A1

GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Mame, Akinor
APPLICANT: Mame, Akinor
APPLICANT: Mame, Akiko
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: Poptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: POPTIGE-10301
CURRENT FILING DATE: 2003-01-29
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: PatentIn version 3.1
SEQ ID NO 67
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 66.3%; Score 67; DB 14; Length 15; Best Local Similarity 92.9%; Pred. No. 0.00059; Matches 13; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: MISC_FEATURE
1 LOCATION: (1)...[15)
1: OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 53
MS-10-354-240-67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
```

```
APPLICANT: Kume, Akinori
APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Sone, Akinori
APPLICANT: Name, Akiko
APPLICANT: Watao, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dises
FILE REFERENCE: SPO-1031
CURRENT APPLICATION NUMBER: US/10/354,240
PRIOR APPLICATION NUMBER: US/10/97/00740
PRIOR PILING DATE: 1997-03-10
PRIOR PILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                      ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
              47.5%; Score 48; DB 14; Length 15;
100.0%; Pred. No. 0.75;
tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       , JOTHER INFORMATION: Cryjl peptide, Figure 1, Row 55 US-10-354-240-69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 37;
Pred. No. 4
                                                                                                                                                                                                                             Sequence 69, Application US/10354240
; Publication No. US20030185847A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 70.0%;
Matches 7; Conservative 7
                Query Match
Best Local Similarity 100.
Matches 10; Conservative
                                                                                                                                6 ILSEGNSFTA 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11 PNDSDKKEVT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PNESYKKOVT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                      GENERAL INFORMATION
                                                                                                                                                                                                               US-10-354-240-69
                                                                                                ò
                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 66, Application US/10354240

| Sequence 66, Application No. US20030185847A1
| Sequence 66, Application No. US20030185847A1
| GENERAL INFORMATION:
| APPLICANT: Sone, Toshio
| APPLICANT: Twame, Akino
| APPLICANT: Twame, Akino
| APPLICANT: Wino, Kohsuke
| TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
| TITLE OF INVENTION: Peptide-Lago Immunotherapeutic Agent for Treating Disea
| TITLE OF INVENTION: Poptide-Lago Immunotherapeutic Agent for Treating Disea
| TITLE OF INVENTION: POPTION NUMBER: US/10/354,240
| CURRENT APPLICATION NUMBER: US/03-10
| PRIOR APPLICATION NUMBER: US 09/142,524
| PRIOR PELING DATE: 1998-09-09
| NUMBER OF SEQ ID NOS: 174
| SEQ ID NO 66
| LENGTH: 15
                                                                                                                            Sequence 68, Application US/10354240

Publication No. US20030185847A1

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Kume, Akinori

APPLICANT: Wino, Kohsuke

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TILLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

FILE REFERENCE: SPO-103D1

CURRENT APPLICATION NUMBER: US/10/354,240

CURRENT APPLICATION NUMBER: PCT/JP97/00740

PRIOR FILING DATE: 1997-03-10

PRIOR PILLING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: Patentin version 3.1

SEQ ID NO 68

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 61.4%; Score 62; DB 14; Length 15; Best Local Similarity 80.0%; Pred. No. 0.0039; Matches 12; Conservative 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; LOCATION: (1)._(15); OTHER INFORMATION: Cryjl peptide, Figure 1, Row 52 US-10-354-240-66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; LOCATION: (1). (15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 54
US-10-354-240-68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6 NSFTAPNDSDKKEVT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 ILSEGNSFTAPNDS 14
                    NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 3
US-10-354-240-66
                                                                                              RESULT 2
US-10-354-240-68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
  ਨੇ
                                  요
```

```
Sequence 60, Application US/1023412

Sequence 60, Application US/1023412

Publication No. US20040121330A1

GENERAL INPORMATION:

ITILE OF INVENTION: NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR, HGPRBMY4, AND METHODS OF

ITILE OF INVENTION: THEREOF

ITILE OF INVENTION: THEREOF

FILE REFERENCE: D0039A CIP .

CURRENT APPLICATION NUMBER: US/10/323,412

CURRENT FILING DATE: 2001-09-26

PRIOR FILING DATE: 2001-09-26

PRIOR APPLICATION NUMBER: U.S. 60/261,776

PRIOR APPLICATION NUMBER: U.S. 60/261,776

PRIOR PELING DATE: 2001-01-16

PRIOR PELING DATE: 2001-01-16

PRIOR PELING DATE: 2001-01-16

PRIOR FILING DATE: 2001-01-13

PRIOR FILING DATE: 2001-01-13

PRIOR FILING DATE: 2001-01-13

PRIOR SEQ ID NOS: 69

SOFTWARE: PACENTION NUMBER: U.S. 60/313,202

PRIOR FILING DATE: 2001-08-17

NUMBER OF SEQ ID NOS: 69

LENGTH: 15

TYPE: PRI

CRANTIS: ATTIFICIAL SEQUENCE
                                                                                                                                                                 APPLICANT: FEDER, G.
APPLICANT: PEDER, G.
APPLICANT: MINTIER, G.
APPLICANT: MINTIER, G.
APPLICANT: MANNATHAN, C.S.
APPLICANT: CACACE, A.
APPLICANT: CACACE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 31.7%; Score 32; DB 10; Length 15; Best Local Similarity 54.5%; Pred. No. 3.1e+02; Matches 6; Conservative 1; Mismatches 4; Indels
                                                                      Sequence 60, Application US/09966459A Publication No. US20030022237A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3 SEGNSFTAPND 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3 SDGESFFEPGD 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-966-459A-60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JS-10-323-412-60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     32.7%; Score 33; DB 17; Length 17; 58.3%; Pred. No. 2.5e+02; ive 0; Mismatches 5; Indels
                                                                                                                                                                                                               Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  32.7%; Score 33; DB 17; Length 19; 58.3%; Pred. No. 2.8e+02; tive 0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                  3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Rainbow trout Histone H2B-3(HLP-3)(Fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Rainbow trout Histone H2B-1(HLP-1)(Fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 113, Application US/10884355A
; Publication No. US20050058689A1
; GENERAL INPORMATION:
    GENERAL INPORMATION:
    TITLE OF INVENTION: Antifungal Paints and Coatings
    FILE REFERENCE: RACT-00400
; CURRENT PILING DATE: 2004-07-02
; PRIOR APPLICATION NUMBER: 60/485,234
; PRIOR FILING DATE: 2003-07-03
; NUMBER OF SEQ ID NOS: 199
; SOFTWARE: Patentin version 3.3
; FROM NO 113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 7
US-10-884-355A-112
US-10-884-355A-112
Sequence 112, Application US/10884355A
Publication No. US20050058689A1
GENERAL INFORMATION:
TITLE OF INVENTION: Antifungal Paints and Coatings
FILE REPERENCE: RACT-00400
CURRENT FILING DATE: 2004-07-02
PRIOR APPLICATION NUMBER: 60/485,234
PRIOR FILING DATE: 2003-07-03
NUMBER OF SEQ ID NOS: 199
SOFTWARE: PatentIn version 3.3
LENGTH: 19
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)...(15)
; OTHER INFORMATION: Cryjz peptide, Figure 2, Row 34
US-10-354-240-117
                                                                                                                                                                                                        32.7%; Score 33; DB 14;
70.0%; Pred. No. 2.1e+02;
tive 0; Mismatches 3
                                                                                                                                                                                                                                           Best Local Similarity 70.0
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity 58.3
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity 58.3
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9 TAPNDSDKKEVT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9 TAPNDSDKKEVT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6 TAPKKKSKKAVT 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6 TAPKKGSKKAVT 17
                                                                                                                                                                                                                                                                                                                                                 5 GNSFTAPNDS 14
                                                                                                                                                                                                                                                                                                                                                                                                             2 GISITAPRDS 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 6
US-10-884-355A-113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-884-355A-112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-884-355A-113
                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
```

FEATURE:

ö

Gaps

```
Score 31; DB 14; Length 14
Pred. No. 4.2e+02;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                       TYPE: PRT ORGANISM: Streptococcus pyogenes
                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 85.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       : | |::|| : ||
1 VLKAGHAFTLIDPSD 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 ILSEGNSFTAPNDSD 15
                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; ORGANISM: Fusarium scirpi
US-10-432-422-67
                                                                                                                                                                                                                                                                                                                                                                                                                                              14 SDKKEVT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3 TDKKEVT 9
                                                                                                                                                                                                                                                                                                                                                     US-10-172-425B-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-432-422-67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 31.7%; Score 32; DB 17; Length 17; Best Local Similarity 42.9%; Pred. No. 3.6e+02; Matches 6; Conservative 3; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 32; DB 17; Length 17;
Pred. No. 3.6e+02;
3; Mismatches 5; Indels
                                               Length 15;
                                                                           4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-660-370-103

Sequence 103, Application US/10660370

Publication No. US200500645071

GENERAL INFORMATION:
APPLICANT: Shaw, J. Stephen

TITLE OF INVENTION: Determining Kinase Specificity
FILE REPERENCE: 1662.009US2

CURRENT APPLICATION NUMBER: US/10/660,370

CURRENT FILING DATE: 2003-09-11

NUMBER OF SEQ ID NOS: 640

SOFTWARE: FastSEQ for Windows Version 4.0

LENGTH: 17
                                                                                                                                                                                                          Sequence 22, Application US/10660370
Publication No. US20050064507A1
GENERAL INFORMATION:
APPLICANT: Shaw, J. Stephen
APPLICANT: National Institutes of Health
ITILE OF INVENTION: Determining Kinase Specificity
FILE REPERENCE: 1662.009US2
CURRENT APPLICATION NUMBER: US/10/660,370
CURRENT FILING DATE: 2003-09-11
NUMBER OF SEQ ID NOS: 640
SEQ ID NO 2: SEQ ID NOS: 640
SEQ ID NO 2: SEQ ID NOS: 640
                                            Score 32; DB 16;
Pred. No. 3.1e+02;
1; Mismatches 4
 ; OTHER INFORMATION: Synthesized Polypeptide.
US-10-323-412-60
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; OTHER INFORMATION: A synthetic peptide US-10-660-370-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: A synthetic peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence
                                            unery Match
Best Local Similarity 54.5%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 42.9%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 ILSEGNSFTAPNDS 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 ILSEGNSFTAPNDS 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3 SEGNSFTAPND 13
                                                                                                                                        3 SDGESFFEFGD 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-660-370-103
                                                                                                                                                                                                 US-10-660-370-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ۵
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                           ઠે
                                                                                                                                      셤
```

Gaps ;

Length 14;

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
30.7%; Score 31; DB 15; 1
Best Local Similarity 40.0%; Pred. No. 4.5e+02;
Matches 6; Conservative 4; Mismatches 5;
US-10-432-422-6/
Sequence 67, Application US/10432422
Publication No. US20040076981A1
GENERAL INFORMATION:
APPLICANT: Syngenta Participations AG
APPLICANT: Cornell Research Foundation, Inc.
APPLICANT: Turgeon, Barbara G.
APPLICANT: Turgeon, Barbara G.
APPLICANT: Lu, Shen-wen
TITLE OF INVENTION: Fungal Iron Reductase Gene
FILE REPRENCE: 1350.017N0 US/10/432,422
CURRENT APPLICATION NUMBER: US 60/252,732
PRIOR APPLICATION NUMBER: US 60/252,732
PRIOR APPLICATION NUMBER: US 60/252,649
PRIOR FILING DATE: 2000-11-22
PRIOR FILING DATE: 2000-11-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQ ID NOS: 210
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-632-706-141
; Sequence 141, Application US/10632706
; Publication No. US20040175385A1
```

RESULT 12

```
Sequence 145, Application US/10632706
; Sequence 145, Application US/10632706
; Bublication No. US20040175385A1
; GENERAL INFORMATION:
APPLICANT: MARKS, JAMES D.
; APPLICANT: MARKS, JAMES D.
; APPLICANT: MARKS, JAMES D.
; TITLE OF INVENTION: NEUROTOXINS
; TITLE OF INVENTION NUMBER: US 60/400,721
; PRIOR APPLICATION NUMBER: US 60/400,721
; PRIOR FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 278
; SEQ ID NO 145
; LENGTH: 17
APPLICANT: MARKS, JAMES D.
APPLICANT: MARKS, JAMES D.
APPLICANT: MARKS, JAMES D.
APPLICANT: AMERSDORFER, PETER
TITLE OF INVENTION: THERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
TITLE OF INVENTION: NEUROYCXINS
FILE REFERENCE: 407T-895120US
CURRENT APPLICATION NUMBER: 02/10/632,706
CURRENT FILING DATE: 2002-08-01
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR APPLICATION NUMBER: US 99/144,806
PRIOR PILING DATE: 1998-08-31
NUMBER OF SEQ ID NOS: 278
SOFTWARE: PARENTIN VERSION 3.2
SEQ ID NO 141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 30.7%; Score 31; DB 16; Length 17; Best Local Similarity 46.7%; Pred. No. 5.2e+02; Matches 7; Conservative 3; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30.7%; Score 31; DB 16; Length 17; 46.7%; Pred. No. 5.2e+02; tive 3; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
// OTHER INFORMATION: single chain antibody fragment
US-10-632-706-141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; OTHER INFORMATION: single chain antibody fragment
US-10-632-706-145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 LSEGNSFTAPNDSDK 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 :|:| |:| |:| 2 ISDGGSYTYYPDSVK 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 LSEGNSFTAPNDSDK 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 46.73
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 15
US-10-632-706-145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
```

Search completed: June 20, 2005, 15:55:19 Job time : 54.45 secs THIS PAGE BLANK (USPTO)

```
June 20, 2005, 14:04:11; Search time 16.15 Seconds (without alignments) 92.445 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                            196327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Issued Patents AA:*

(cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
(cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
(cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
(cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                     Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                              513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                    OM protein - protein search, using sw model
                                                                                                                                                                                                                                                              1 ILSEGNSFTAPNDSDKKEVT 20
                                                                                                                                                                                                                                                                                                                                  Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                           US-09-202-464-29
101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                              BLOSUM62
                                                                                                                                                                                                                    Title:
Perfect score:
                                                                                                                                                                                                                                                                                                              Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Database :
                                                                                                                                                                                                                                                                     Sequence:
                                                                                                                                                                                                                                                                                                                                                                              Searched:
                                                                                                                                  Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		Appl	Appl	Appl	Appl	Appl	Appl	Appl	Appl	Appl	Appl	Appl	App1	App	App	App	App	App	App	App	App	App	Appl	App	Appl	Appli	pli	Appli
	-	52, 7	67, 1		66, 1		69, 7	53, 7	33, 7	12,	29, 7	31, 7	35, 7	117,	170,		170,	170,	170,	170,	170,	170,	15, 7		~	7, A	7, A	3, A
	tioi				_	ice :	_	ice :	ce	ice .	ce.	ce	ice .	če	če.	ő	ce.	ice .	, e	Ce	če.	ce :	ice.	ce.	ce	Og	ice.	S e
	Description	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
•	De	Š	Ϋ́	Ň	Ň	Š	ο̈́	Š	Ο̈́	ŭ	Š	Š	ŏ	ŭ	ŏ	ŏ	ŏ	Š	Š	Š	Š	Š	Ñ	Š	Ϋ́	ο̈	ŭ	ഗ്
		! ! !																										
		7	67	68	99	-	69	9	9	8	6	٦,	2	-117	70	70	70	70	70	170	70	70	c,	113	6		7	
ες		US-08-467-023-52	US-09-142-524D-67	US-09-142-524D-68	US-09-142-524D-66	US-08-467-023-51	US-09-142-524D-69	US-08-467-023-5	US-09-014-416-33	-473-12	-416-2	-416-31	-416-3	24D-	US-07-789-184-170	US-08-475-263-170	08-485-886-170	US-08-477-362-170	JS-08-477-134-170	JS-08-473-489A-170	US-08-485-695-170	US-08-018-760-170	08-295-643-15	-439A-11	-416-3	144-7	429-	41-8
SUMMARIES		0-491	142-5	142-5	142-5	167-0	142-5	167-0	14-4	148-4	14-4	14-4	14-4	US-09-142-524D	189-1	175-2	185-8	177-3	177-1	173-4	185-6	118-7	295-6	304-4	14-4	US-08-475-844	PCT-US95-08429	US-09-133-341-
SUM		08	-09-1	-09-1	-60-	-80-	-09-1	-80-	-60-	US-09-048	US-09-014	US-09-014	US-09-014	-09-1	-07-7	-80-	-80-	-80-	-80-	-08-	-80-	-80-	-88-	US-08-804	US-09-014	-80-	r-us	-09-1
	Ω	ns	Ġ	Sn.	ns	as	ŝ	Ġ	Ġ	ΩŠ	Ġ	ΩŜ	Sn	ġ	ġ	ġ	ns-	ŝ	S	S	S	SD	-SD	ŝ	nS	ΩŠ	ğ	nS
	80	_	4	4	4	ო	4	m	m	4	m	ო	٣	4	-	-	-	~	~	ო	m	m	N	٣	ო	~	ß	m
	Query Match Length	20	15	15	15	20	15	20	19	16	19	19	19	15	12	12	12	12	12	12	12	12	17	18	19	12	12	15
	Query Match	4.2	6.3	1.4	7.5	7.5	9.9	9.9	7.	3.7	3.7	3.7	3.7	2.7	0.7	7.0	0.7	30.7	30.7	٥.7	30.7	7.0	7.0	9.7	7.6	7.	8.7	8.7
*	ăg.	ě	Ğ	6	4	4	ň	ň	ň	'n	m	m	m	m	ĕ	m	m	ñ	ĕ	ñ	m	m	ñ	Ñ	Ñ	~	ក	7
	Score	85	67	62	48	48	37	37	35	34	34	34	34	33	31	31	31	31	31	31	31	31	31	30	30	29		29
	Result No.	-	7	e	4	2	y	7	ω	σ,	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27

Sequence 8, Appli Sequence 116, Appl Sequence 12, Appl Patent No. 5196511 Patent No. 5196511 Sequence 29, Appl Sequence 51, Appli Sequence 51, Appli Sequence 7, Appli Sequence 7, Appli Sequence 3, Appli Sequence 3, Appli Sequence 26, Appli Sequence 26, Appli Sequence 26, Appli Sequence 26, Appli Sequence 26, Appli Sequence 27, Appli Sequence 28, Appli Sequence 28, Appli Sequence 28, Appli Sequence 21, Appli	ddw '/er aguanbas
US-09-739-852-8 US-09-142-524D-116 US-09-142-524D-116 S195511-26 S196511-26 US-08-488-252-29 US-08-488-252-29 US-08-218-025A-15 PCT-US93-11703-51 US-08-886-886-7 US-08-440-322-3 US-08-440-322-3 US-08-440-331-4 US-08-440-331-4 US-08-440-331-4 US-08-56-190-23	121-203-212
44400444	4
113 113 114 116 116 116 116 117 117 117 117 117 117	77
22 22 22 28 88 88 22 22 22 22 22 22 22 2	7.97
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4. U

ALIGNMENTS

```
US-08-46-70.23.-52

US-08-46-70.23.-52

US-08-46-70.23.-52

Patent No. 609086

GENERAL INFORMATION:

APPLICANT: POILOCK, Joanne;

APPLICANT: Garman, Richard D;

APPLICANT: Garman, Richard D;

APPLICANT: Wo. Mei-Chang;

APPLICANT: Evaley, Mark A;

APPLICANT: Powers, Steven B.

TITLE OF INVENTION: Japanese Cedar Pollen

NUMBER OF SOURENCES: 261

APPLICANT: Waltham

STREET: 610 Lincoln St

COMPURE: Waltham

STREET: Ploppy disk

COMPURE: Elb PC Compatible

COMPUTE: Relabable FORM:

MEDIUM TYPE: Floppy disk

COMPUTE: Relabable FORM:

MEDIUM TYPE: Ploppy disk

COMPUTE: Relabable FORM:

COMPUTE: Relabable FORM:

MEDIUM TYPE: Ploppy disk

COMPUTE: Relabable FORM:

COMPUTE: Betentin Relabable #1.0, Version #1.25

CLASSIFICATION DATA:

APPLICATION NUMBER: US/08/467,023

CLASSIFICATION NUMBER: 08/350,225

FILING DATE: December 6, 1995

CLASSIFICATION NUMBER: 08/350,225

FILING DATE: December 6, 1995

CLASSIFICATION NUMBER: 08/350,225

FILING DATE: BREATHIARD

NAME: Jane R. Remillard

NEBERRUCE/OCKET NUMBER: 025.6 USD2 (IMI-028CPD2)

TELECOMMUNICATION NUMBER: 025.6

SEGUENCE CHAAACTERISTICS:

LENGTH: 20 amino acids

TYPE AMINO ACID TYPE: Poppide

TYPE AMINO ACID TYPE: Poppide

TYPE AMINO ACID TYPE: Poppide

NOBCOLETYPE: Depende
```

```
Sequence 66, Application US/09142524D

Sequence 66, Application US/09142524D

Patent No. 6719976

GREEAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Mame, Akinori

APPLICANT: Iwama, Akinori

APPLICANT: Wano, Koheuke

IIILE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

IIILE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

CURRENT APPLICATION NUMBER: PCT/JP97/00740

PRIOR APPLICATION NUMBER: PCT/JP97/00740

PRIOR APPLICATION NUMBER: PCT/JP97/00740

NUMBER OF SEQ ID NOS: 174

SOFTWARE: PatentIn version 3.1

FEVOR IN 066

FEVOR APPLICATION OF FEVOR                                                                                                                                                                                                                ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen NUMBER OF SEQUENCES: 261
                                                                                                                             Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         E: ImmuLogic Pharmaceutical Corporation, Inc. 610 Lincoln St
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LOCATION: (1).7(15)
CTHER INFORMATION: Cryjl peptide, Figure 1, Row 52
US-09-142-524D-66
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 54
US-09-142-524D-68
                                                                                                                             Score 62; DB 4;
Pred. No. 0.0012;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 47.5%; Score 48; DB 4; Best Local Similarity 100.0%; Pred. No. 0.23; Matches 10; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-467-023-51

Sequence 51, Application US/08467023

Sequence 51, Application US/08467023

Patent No. 6090386

APPLICANT: Griffeth, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Sieven P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                             61.4%;
80.0%;
                                                                                                                                                                                                                                                                                                                                                1 NSFTAPNESYKKQVT 15
                                                                                                                                                                                                                                                                                                 6 NSFTAPNDSDKKEVT 20
                                                                                                                             Query Match
Best Local Similarity 80.0
Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSEE: ImmuLogic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 ILSEGNSFTA 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 ILSEGNSFTA 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET: 610 Li
CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 15
                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-142-524D-68

Sequence 68, Application US/09142524D

Patent No. 6719976

GENERAL INFORMATION:

APPLICANT: Kume, Akinori

APPLICANT: Kane, Akinori

APPLICANT: Kino, Kohsuke

TITLE OF INVENTION:

TITLE OF INVENTION NUMBER: US/09/142,524D

CURRENT PILING DATE: 1998-09-09

PRIOR APPLICATION NUMBER: PCT/JP97/00740

PRIOR PPLICATION NUMBER: PCT/JP97/00740

RRIOR FILING DATE: 1997-03-10

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 68

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Mume, Akinoxi
APPLICANT: Iwama, Akinoxi
APPLICANT: Iwama, Akinoxi
APPLICANT: Iwama, Akino
APPLICANT: Iwama, I
                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                 Gaps
                                                                                                                                                                                 ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 66.3%; Score 67; DB 4; Length 15; Best Local Similarity 92.9%; Pred. No. 0.00019; Matches 13; Conservative 1; Mismatches 0; Indels
                                                                                      Query Match

84.2%; Score 85; DB 3; Length 20;
Best Local Similarity 85.0%; Pred. No. 3.1e-07;
Matches 17; Conservative 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCATION: (1).7(15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 53
US-09-142-524D-67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 67, Application US/09142524D Patent No. 6719976
                                                                                                                                                                                                                                                              1 ILSEGNSFTAPNDSDKKEVT 20
                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 ILSEGNSFTAPNDS 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 ILSEGNSFTAPNES 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 2
US-09-142-524D-67
            US-08-467-023-52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                            셤
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
APPLICANT: Yanagi, Masayuki
APPLICANT: Buch, Jens
APPLICANT: Emerson, Susanne U.
APPLICANT: Expresil, Robert H.
TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND
TITLE OF INVENTION: USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Bond, Julian F.;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Brauer, Andrew;
APPLICANT: Powers, Stewen P.
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
STREF: 610 Lincoln St
CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 36.6%; Score 37; DB 3; Best Local Similarity 70.0%; Pred. No. 20; Matches 7; Conservative 2; Mismatches
                                                                                            Sequence 53, Application US/08467023
Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 33, Application US/09014416 Patent No. 6153421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (617) 227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11 PNDSDKKEVT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 PNESYKKOVT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE:
                                                                    JS-08-467-023-53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-467-023-53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-014-416-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY:
                                                                                                                                           Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Mane, Akinori
APPLICANT: Mame, Akinori
APPLICANT: Iwama, Akiko
APPLICANT: Ibang Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: PatentIn version 3.1
SEQ ID NO 69
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             36.6%; Score 37; DB 4; Length 15; 70.0%; Pred. No. 14; tive 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    47.5%; Score 48; DB 3; Length 20; 100.0%; Pred. No. 0.32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Indels
                    MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPRATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTONNEY/AGENT INPORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFRENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPAK: (617) 227-7400
TELEPAK: (617) 227-5941
INFORMATION FOR EQUID NO: 51:
SEQUENCE CRARACTERISTICS:
LENGTH: 20 maino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    025.6 USD2 (IMI-028CPD2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; LOCATION: (1). (15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 55
US-09-142-524D-69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Pred. ... 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5-09-142-524D-69
Sequence 69, Application US/09142524D
Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 70.0
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ) MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-51
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PNDSDKKEVT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 PNESYKKQVT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 ILSEGNSFTA 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11 ILSEGNSFTA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              amino acid
GY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 10; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
```

g ઠ

Gaps

ö

Indels

Pred. No. 47; 7; Mismatches

```
Best Local Similarity 33.3%; Pr
Matches 5; Conservative 7;
                                                             3 SEGNSFTAPNDSDKK 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-014-416-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 19
                                                             ò
                                                                                                В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                      ô
                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                           Score 35; DB 3; Length 19;
Pred. No. 39;
4; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STATE: CA
COUNTRY: US
ZIP: 94304-1133
COMPUTER READBLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FREESEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/048,473
FILING DATE: 26-MRI-1998
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hayenga, Kirk J.
Lawlis, Virgil B.
Ward, Michael
TITLE OF INVENTION: ASPARTIC PROTEINASE DEFICIENT
FILAMENTOUS FUNGI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSE: Genencor International, Inc.
STREET: 925 Page Mill Road
CITY: Palo Alto
FILE REFERENCE: 20264276
CURRENT APPLICATION NUMBER: US/09/014,416
CURRENT FILLING DATE: 1999-01-27
EARLIER APPLICATION NUMBER: US 60/053,062
MUMBER OF SEQ ID NOS: 65
SOFTWARE: Patentin Ver: 2.1
SOFTWARE: 1997-119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 07/214,237
FILING DATE: 01-JUL-1992
APPLICATION NUMBER: 07/931,123
FILING DATE: 17-AUG-1992
APPLICATION NUMBER: 08/345,018
FILING DATE: 23-NOV-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Glaister, Debra J.
REGISTRATION NUMBER: 31,888-8
REFERENCE/DOCKET NUMBER: GC45-4
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE DESCRIPTION: SEQ ID NO: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 12, Application US/09048473
Patent No. 6509171
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHONE: 650-846-7620
TELEFAX: 650-845-6504
INFORMATION FOR SEQ ID NO: 12:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Berka, Randy M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                               34.7%;
                                                                                                                                                                                 ) TYPE: PRT
; ORGANISM: Hepatitis C virus
US-09-014-416-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino acid
                                                                                                                                                                                                                                                             Query Match 34.7
Best Local Similarity 45.5
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                    ::| || || ::
6 TYTGPNSSDQR 16
                                                                                                                                                                                                                                                                                                                                             7 SFTAPNDSDKK 17
                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 9
US-09-048-473-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-048-473-12
                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                셤
```

33.7%; Score 34; DB 4; Length 16;

Query Match

```
Sequence 29, Application US/09014416
; Sequence 29, Application US/09014416
; Patent No. 6153421
; GENERAL INPORMATION:
; APPLICANT: Yanagi, Masayuki
; APPLICANT: Emerson, Susame U.
; APPLICANT: Burson, Susame U.
; APPLICANT: Purcell, Robert H.
; TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: 20264276
; CURRENT APPLICATION NUMBER: US/09/014,416
; CURRENT FILING DATE: 1998-01-27
; EARLIER FILING DATE: 1998-01-27
; EARLIER FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-014-416-31

Sequence 31, Application US/09014416

Patent No. 6153421

GENERAL INFORMATION:

APPLICANT: Wangi, Masayuki

APPLICANT: Bukh, Jens

APPLICANT: Bukh, Jens

APPLICANT: Bukh, Jens

APPLICANT: Bukh, Jens

APPLICANT: Purcell, Robert H.

TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND

TITLE OF INVENTION: USES THEREOF

FILE REFERENCE: 20264276

CURRENT FAPLICATION WUMBER: US/09/014,416

CURRENT FILING DATE: 1998-01-27

CURRENT FILING DATE: 1998-01-27

SARLIER PILING DATE: 1997-07-18

NUMBER OF SEQ ID NOS: 65

SOFTWARE: Patentin Ver. 2.1

TENGTH. 10 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 34; DB 3; Length 19;
Pred. No. 57;
4; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 34; DB 3;
Pred. No. 57;
4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              33.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     33.7%;
45.5%;
1 SKGSAVTTPONNDEE 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-09-014-416-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Hepatitis C virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7 SFTAPNDSDKK 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6 TYTKPNSSDOR 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7 SFTAPNDSDKK 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ::| || ||::
6 TYTEPNSSDOR 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ద
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ..
0
Sequence 170, Application US/07789184

Patent No. 5688768

GENERAL INFORMATION:
APPLICANT: COUGHLIN, SHAUN R.
APPLICANT: CARRENCOUGH, ROBERT M.
ITILE OF INVENTION: RELATED PHARWACEUTICALS
INTHER OF SEQUENCES: 223
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 Page Mill Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1701, Application US/08475263

Patent No. 575994

GENERAL INFORMATION:

APPLICANT: COUGHLIN, SHAUN R.

APPLICANT: SCARBOROUGH, ROBERT M.

TITLE OF INVENTION: RECOMBINANT THROMBIN RECEPTOR AND TITLE OF INVENTION: RELATED PHARMACEUTICALS

NUMBER OF SEQUENCES: 223

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORRISON & FOERSTER

STREET: 2000 Pennsylvania Ave., NW

CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4; Indels
                                                                                                                                                                                                                              STREET: 755 Page Mill Road
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READBLE FORM:
MEDIUW TYPE: Floppy disk
COMPUTER: IBM PC COMPALIDLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/789,184
FILING DATE: 19911107
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY: USA
ZIP: 20006-1812
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/475,263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 31; DB 1;
Pred. No. 1e+02;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: MURASHIGE, KATE H.
REGISTRATION NUMBER: 29,959
REFREENCE/DOCKET NUMBER: 22000-20502.20
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFX: (415) 494-0792
TELEX: 34-0154
INFORMATION FOR SEQ ID NO: 170:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 30.7%;
Best Local Similarity 58.3%;
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7 SFTAPNDSDKKE 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 SFLARNPNDKYE 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ;
TOPOLOGY:
US-07-789-184-170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-475-263-170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Twama, Akinori
APPLICANT: Iwama, Akixo
APPLICANT: Iwama, Akixo
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT APPLICATION NUMBER: PSCT/JP97/00740
PRIOR APPLICATION NUMBER: PSCT/JP97/00740
PRIOR APPLICATION NUMBER: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 117
LENGTH: 15
                                                            Sequence 35, Application US/09014416

Sequence 35, Application US/09014416

Rewith No. 6153421

GENERAL INFORMATION

APPLICANT: Bankh, Jens

APPLICANT: Bankh, Jens

APPLICANT: Breecel, Robert H.

TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND TITLE OF INVENTION: USES THEREOF

FILE REFRENCE: 20264276

CURRENT APPLICATION NUMBER: US/09/014,416

CURRENT PILING DATE: 1998-01-27

EARLIER APPLICATION NUMBER: US 60/053,062

RARLIER PILING DATE: 1997-07-18

NUMBER OF SEQ ID NOS: 65

SEQ ID NOS: 65

LENGTH: 19

LENGTH: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 34; DB 3; Length 19;
Pred. No. 57;
4; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             32.7%; Score 33; DB 4; Length 15; 70.0%; Pred. No. 63; 3; Indels tive 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LOCATION: (1)...(15)
COTHER INFORMATION: Cryj2 peptide, Figure 2, Row 34
US-09-142-5245-117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 117, Application US/09142524D Patent No. 6719976 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          33.78;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-09-014-416-35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ouery Match
Best Local Similarity 45.5
Local Similarity 5.5
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 70.0
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7 SFTAPNDSDKK 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6 AYTEPNSSDOR 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5 GNSFTAPNDS 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 GISITAPRDS 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-142-524D-117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 14
US-07-789-184-170
                                                     US-09-014-416-35
```

à

g

셤

ઠે

```
Sequence 74, Appl
Sequence 72, Appl
Sequence 75, Appl
Sequence 93, Appl
Sequence 1269, Ap
Sequence 1270, Ap
Sequence 1271, Ap
Sequence 1267, Ap
Sequence 1267, Ap
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 73, Appl
                                                                                                                       (without alignments)
106.072 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/USO7_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB_pep:*
4: /cgn2_6/ptodata/2/pubpaa/USO6_NEW_PUB_pep:*
5: /cgn2_6/ptodata/2/pubpaa/USO6_PUBCOMB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/USO7_NEW_PUB_pep:*
7: /cgn2_6/ptodata/2/pubpaa/USO8_NEW_PUB_pep:*
8: /cgn2_6/ptodata/2/pubpaa/USO8_NEW_PUB_pep:*
9: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
21: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
22: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
                                                                                                        June 20, 2005, 15:55:27; Search time 72.4 Seconds
                                                                                                                                                                                                                                                                                                                 332641
           GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-354-240-73
US-10-354-240-74
US-10-354-240-72
US-10-354-240-75
US-10-742-379-93
US-10-468-496-1270
US-10-468-496-1271
US-10-468-496-1271
US-10-468-496-1271
US-10-468-496-1267
US-10-468-496-1267
                                                                                                                                                                                                                                                                                                            Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                1714042 segs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                           Listing first 45 summaries
                                                                           - protein search, using sw model
                                                                                                                                                                                  119
1 CANWVWRSTQDSFNNGAYFV 20
                                                                                                                                                                                                                                                 Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                         Post-processing: Minimum Match 0% Maximum Match 100%
                                                                                                                                                                     US-09-202-464-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length
                                                                                                                                                                                                                                                                                                                                             Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                   BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query
Match 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   559.7
34.5
34.5
34.5
34.0
334.0
332.8
31.1
                                                                                                                                                                                                                                 Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   71
67
71
74
74
70
70
70
71
71
71
71
71
                                                                                                                                                                                      score:
                                                                           OM protein
                                                                                                                                                                                                     Sequence:
                                                                                                                                                                                                                                                                                Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Database
                                                                                                        Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12643978931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Š.
```

```
Sequence 73, Application US/10354240

Sequence 73, Application US/10354240

Sequence 73, Application World 10354240

GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Mino, Kazuo
APPLICANT: Mino, Kohsuke
APPLICANT: Kino, Kohsuke
APPLICANT: Kino, Kohsuke
APPLICANT: Kino, Kohsuke
APPLICANT: Kino, Mohsuke
TILE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TILE REFERENCE: SPO-103D1
CURRENT FILING DATE: 2003-01-29
PRIOR PLING DATE: 2003-01-29
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR PILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: PatentIn version 3.1
SEQ ID NO 73
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
       Aguence 263, App

Aguence 264, App

Aguence 264, App

Aguence 184, App

Aguence 162, App

Aguence 264, App

Aguence 162, App

Aguence 139, App

Sequence 139, App

Sequence 287, App

Sequence 265, App

Sequence 287, App

Sequence 289, App

Sequence 2130, App

Sequence 213, App
                                                                                                                                      261, 1
283, 1
1326,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                      Sequence 3
Sequence 1
Sequence 1
Sequence 2
   Sequence
Sequence
Sequence
Sequence
                                                                                                                                                      Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 59.7%; Score 71; DB 14; Length 15; Best Local Similarity 73.3%; Pred. No. 0.0029; Matches 11; Conservative 2; Mismatches 2; Indels
US-10-714-564A-323
US-10-714-564A-324
US-10-714-564A-325
US-10-714-564A-328
US-10-714-564A-328
US-10-714-564A-734
US-10-714-564A-283
US-10-714-564A-283
US-10-714-564A-283
US-10-714-564A-284
US-10-714-564A-284
US-10-714-564A-285
US-10-714-564A-286
US-10-714-564A-287
US-10-714-564A-288
US-10-714-564A-288
US-10-714-564A-288
US-10-714-564A-288
US-10-714-564A-288
US-10-714-564A-288
US-10-714-564A-288
US-10-714-564A-348
US-10-714-564A-348
US-10-714-564A-345
US-10-714-564A-345
US-10-714-564A-345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: MISC FEATURE
LOCATION: (1). (15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JS-10-354-240-73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-354-240-73
```

ð 셤

```
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Wama, Akiko
APPLICANT: Wama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseas
FILE REFERENCE: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT APPLICATION NUMBER: US/10/37/00740
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 75
LENGTH: 15
LENGTH: 15
                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .;
0
                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 93, Application US/10742379;
Sequence 93, Application US/10742379;
Publication No. US20040181033A1
GENERAL INFORMATION:
APPLICANT: Han, HQ
APPLICANT: Min, Hosung
TITLE OF INVENTION BINDING AGENTS WHICH INHIBIT MYOSTATIN
FILE REFERENCE: A-828 (US)
CURRENT APPLICATION NUMBER: US/10/742,379
CURRENT PILING DATE: 2003-12-19;
PRIOR APPLICATION NUMBER: US 60/435,923
PRIOR FILING DATE: 2002-12-20
NUMBER OF SEQ ID NOS: 634
SOFTWARE: Patentin version 3.2
LENGTH: 18
                       Score 57; DB 14; Length 15; Pred. No. 0.29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 41; DB 14; Length 15;
Pred. No. 56;
0; Mismatches 2; Indels
                                                                       0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCATION: (1).7(15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 61
US-10-354-240-75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; OTHER INFORMATION: Myostatin Binding Peptide US-10-742-379-93
                                                                                                                                                                                                                                                                                       Sequence 75, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Cryptomeria japonica
                       Query Match
Best Local Similarity 80.0%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               34.5%;
80.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                  |:||||:|||
6 CSNWVWQSTQ 15
                                                                                                                        1 CANWIVWRSTQ 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11 DSFNNGAYFV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 DVFYNGAYFV 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                          JS-10-354-240-75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-742-379-93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 5
                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                            squence 74, Application US/10354240

guerace 74, Application US/10354240

guerace 74, Application Would Seafal

general INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Wame, Akinori

APPLICANT: Wame, Akinori

APPLICANT: Wame, Akinori

APPLICANT: Kino, Kohsuke

TITLE OF INNENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INNENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

CURRENT FILING DATE: 1990-1031

CURRENT FILING DATE: 1997-03-10

PRIOR APPLICATION NUMBER: US/10/354,240

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR PELING DATE: 1990-09-09

PRIOR FILING DATE: 1990-09-09

WUMBER OF SEQ ID NOS: 174

SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Squence 72, Application US/10354240

| Squence 72, Application US/10354240
| Publication No. US20030185847A1
| GENERAL INFORMATION:
| APPLICANT: Sone, Toshio
| APPLICANT: Sone, Toshio
| APPLICANT: Wame, Akinori
| APPLICANT: Iwame, Akinori
| TITLE OF INFORTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
| TITLE OF INFORTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
| TITLE OF INFORTION NUMBER: US/10/354,240
| CURRENT FILING DATE: 1997-03-10
| PRIOR PPLICATION NUMBER: US 09/142,524
| PRIOR PPLING DATE: 1998-09-09
| WUMBER OF SEC ID NOS: 174
| SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    56.3%; Score 67; DB 14; Length 15; 80.0%; Pred. No. 0.011; tive 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; NAME/KEY: MISC_FEATURE
; LOCATION: (1)...(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 58
US-10-354-240-72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCATION: (1). (15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |:|||| | |||||
WQSTQDVFYNGAYFV 15
1 CANWVWRSTQDSFNN 15
                            1 CSNWVWQSTQDVFYN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6 WRSTQDSFNNGAYFV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity
                                                                                                                   RESULT 2
US-10-354-240-74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 3
US-10-354-240-72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-354-240-74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 74
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 72
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
```

```
Query Match 34.0%; Score 40.5; DB 16; Best Local Similarity, 63.6%; Pred. No. 58; Matches 7; Conservative 2; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: MHC class II binding epitope
                                              FRIOR FILING DATE: 2001-03-06

PRIOR FILING DATE: 2001-03-06

PRIOR FILING DATE: 2001-03-15

PRIOR PILING DATE: 2001-03-20

PRIOR PILING DATE: 2001-03-20

NUMBER OF SEQ ID NOS: 2036

SOFTWARE: PSECSEQ for Windows Version 4.0

LENGTH: 13
                                   ON NUMBER: 01105777.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Artificial Sequence
        2001-02-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 63.6
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |:||| :| ||
2 WLWRSAKD-FN 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4 WVWRSTODSFN 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4 WVWRSTQDSFN 14
        FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-468-496-1270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: METHOD FOR IDENTIFICATION OF T-CELL TITLE OF INVENTION: EPITOPES AND USE FOR PREPARING MOLECULES WITH REDUCED TITLE OF INVENTION: IMMUNOGENCITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 1270, Application US/10468496
Publication No. US20040180386A1
GENERAL INFORMATION
APPLICANT: Carter, Graham
APPLICANT: Carter, Graham
APPLICANT: Jones, Tim
APPLICANT: Williams, Stephen
APPLICANT: Hamilton, Anita
TITLE OF INVENTION: METHOD FOR IDENTIFICATION OF T-CELL
TITLE OF INVENTION: IMMUNOGENCITY
FILLE REPERENCE: MER-117
FILLE REPERENCE: WER-117
FURBLE TAPPLICATION UNDER: US/10/468,496
CURRENT APPLICATION UNDER: 2003-09-25
                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 34.0%; Score 40.5; DB 16; Length 13; 63.6%; Pred. No. 58; tive 2; Mismatches 1; Indels
  34.5%; Score 41; DB 16; Length 18; 66.7%; Pred. No. 67; tive 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OTHER INFORMATION: MHC class II binding epitope
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TILLE REFERENCE: MER-117
CURRENT APPLICATION NUMBER: US/10/468,496
CURRENT FILING DATE: 2003-09-25
PRIOR APPLICATION NUMBER: 01103954.2
PRIOR FILING DATE: 2001-02-19
PRIOR FILING DATE: 2001-03-08
PRIOR FILING DATE: 2001-03-15
PRIOR FLING DATE: 2001-03-15
PRIOR FILING DATE: 2001-03-15
PRIOR FILING DATE: 2001-03-15
PRIOR FILING DATE: 2001-03-20
PRIOR FILING DATE: 2001-03-20
PRIOR PILING DATE: 2001-03-20
PRIOR PILING DATE: 2001-03-20
PRIOR PILING DATE: 2001-03-20
PRIOR PILING DATE: 2001-03-20
SOFTWARE: FRANCE FRANCE COT WINDER: 01106899.6
PRIOR PILING DATE: 2001-03-20
NUMBER OF SEQ ID NOS: 2036
SEQ ID NO 1269
                                                                                                                                                                                                                                                                                         Sequence 1269, Application US/10468496; Publication No. US20040180386A1
GENERAL INFORMATION:
APPLICANT: Carry Francis J.
APPLICANT: Carter Graham; APPLICANT: Jones, Tim
APPLICANT: Hamilton, Applicant; APPLICANT: Hamilton, Anita
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: 01103954.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Artificial Sequence
Query Match
Best Local Similarity 66.7
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity 63.6
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4 WVWRSTQDSFN 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |:||| :| ||
3 WLWRSAKD-FN 12
                                                                                                                                          1 CANWVWRST 9
                                                                                                                                                                                                                                       RESULT 6
US-10-468-496-1269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 7
US-10-468-496-1270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-468-496-1269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
```

1;

Indels

Length 13;

```
WESULT B
US-10-468-496-1271

| Sequence 1271, Application US/10468496
| Publication No. US20040180386A1
| GENERAL INFORMATION:
| APPLICANT: Carry Francis J.
| TITLE OF INVENTION: MATHOD FOR IDENTIFICATION OF T-CELL
| TITLE OF INVENTION: IMPROBE NO. IMPORENCE J.
| TITLE OF INVENTION: IMPORENCE J.
| FILE REPERENCE J.
| FILE REPERENCE J.
| PRIOR PILING DATE: 2001-03-08
| PRIOR PILING DATE: 2001-03-15
| PRIOR PILING DATE: 2001-03-20
| PRIOR PILING DATE: 2001-03-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               34.0%; Score 40.5; DB 16;
63.6%; Pred. No. 58;
tive 2; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; OTHER INFORMATION: MHC class II binding epitope US-10-468-496-1271
```

```
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Callet, vialisms, Stephen
APPLICANT: Williams, Stephen
APPLICANT: Williams, Stephen
APPLICANT: Williams, Stephen
APPLICANT: Williams, Stephen
TITLE OF INVENTION: METHOD FOR IDENTIFICATION OF T-CELL
TITLE OF INVENTION: IMMUNOGENCITY
FILE OF INVENTION: IMMUNOGENCITY
FILE REPERENCE: MEN-117
CURRENT PAPLICATION NUMBER: US/10/468,496
CURRENT APPLICATION NUMBER: 01103954.2
PRIOR FILING DATE: 2001-02-19
PRIOR FILING DATE: 2001-02-19
PRIOR FILING DATE: 2001-03-15
PRIOR FILING DATE: 2001-03-20
PRIOR PRIOR PRICEREQ FOR WINDOWS Version 4.0
SEQ ID NO 1267
LENGTH: 13
PURPLE DATE: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          32.8%; Score 39; DB 16; Length 13; 62.5%; Pred. No. 95; cive 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
OTHER INFORMATION: MHC class II binding epitope
                                                                                                        Sequence 1267, Application US/10468496
Publication No. US20040180386A1
GENERAL INPORMATION:
APPLICANT: Carr, Francis J.
APPLICANT: Carter, Graham
APPLICANT: Jones, Tim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5; Conservative
|:||| :| ||
1 WLWRSAKD-FN 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4 WVWRSTOD 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |:||| :|
6 WLWRSAKD 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 10
US-10-468-496-1268
                                                                                             US-10-468-496-1267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-468-496-1267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                   음
```

```
%Sequence 15, Application US/09962445

$ Sequence 15, Application No. US20020192705A1

$ Sequence 15, Application No. US20020192705A1

$ Sequence 15, Application No. US20020192705A1

$ GENERAL INFORMATION:

$ APPLICANT: MATSUSHITA, Sho et al.

$ TITLE OF INVENTION: Clonal Expansion of T Cells of Unknown Specificity and Identificat TITLE OF INVENTION: Ligand Recognized by the Clonally Expanded T Cells

$ FILE REPERBLICE 0020-4906P

$ CURRENT APPLICATION NUMBER: US/09/962,445

$ CURRENT APPLICATION NUMBER: US/09/962,445

$ PRIOR FILING DATE: 2001-03-21

$ NUMBER OF SEQ ID NOS: 15

$ SOFTWARE: PALENTI VERSION 3.1

$ SEQ ID NO 15

LENGTH: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                          32.8%; Score 39; DB 16; Length 13; illarity 62.5%; Pred. No. 95; Conservative 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-714-564A-323

US-10-714-564A-323

Sequence 323, Application US/10714564A

Publication No. US20040175361A1

GENERAL INPORMATION:
APPLICANT: Blaschuk, Orset W.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING
FILE REFERENCE: 100086.418

CURRENT FILING DATE: 2003-11-14

CURRENT FILING DATE: 2003-11-14

NUMBER OF SEQ ID NOS: 1402

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 37; DB 9; Length 8; Pred. No. 1.6e+06; 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                          ; OTHER INFORMATION: MHC class II binding epitope US-10-468-496-1268
                    PRIOR FILING DATE: 2001-03-15
PRIOR APPLICATION NUMBER: 01107012.5
PRIOR PILING DATE: 2001-03-20
PRIOR APPLICATION NUMBER: 01106899.6
PRIOR PILING DATE: 2001-03-20
NUMBER OF SEQ ID NOS: 2036
SOFTWARE: PastSEQ for Windows Version 4.0
LENGTH: 13
PRIOR APPLICATION NUMBER: 01106536.4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; TYPE: PRT
; ORGANISM: Japanese cedar pollen
US-09-962-445-15
                                                                                                                                                                                                                                                                             TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
31.1%;
Best Local Similarity 87.5%;
Matches 7; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4 WVWRSTQD 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13 FNNGAYFV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 5; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5 WLWRSAKD 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 FYNGAYFV 8
```

```
Job time : 73.4 secs
                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <del>Q</del>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ठ
                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                  RESULT 13
US-10-714-564A-324
; Sequence 324, Application US/10714564A
; Publication No. US20040175361A1
; GENERAL INFORMATION:
; APPLICANT: Blaschuk, Orest W.
; APPLICANT: Blaschuk, Stephanie D.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING;
; TITLE OF INVENTION: PUNCTIONS OF NONCLASSICAL CADHERINS;
; FILE REFERENCE: 100086.418
; CURRENT APPLICATION NUMBER: US/10/714,564A
; CURRENT FILING DATE: 2003-11-14
; NUMBER OF SEQ ID NOS: 1402
; SOOTHARE: PSELSEQ for Windows Version 4.0
; SEQ ID NO 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 14
US-10-714-564A-325

Sequence 325, Application US/10714564A

Publication No. US20040175361A1

GENERAL INFORMATION:
APPLICANT: Blaschuk, Orest W.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING
TITLE OF INVENTION: PUNCTIONS OF NONCLASSICAL CADHERINS
FILE REFERENCE: 100086.418

CURRENT APPLICATION NUMBER: US/10/714,564A

CURRENT FILING DATE: 2003-11-14

NUMBER OF SEQ ID NOS: 1402

SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                 29.4%; Score 35; DB 16; Length 7; 66.7%; Pred. No. 1.6e+06; tive 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29.4%; Score 35; DB 16; Length 8; 66.7%; Pred. No. 1.6e+06; 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29.4%; Score 35; DB 16; Length 9; 66.7%; Pred. No. 1.6e+06; tive 1; Mismatches 1; Indels
; FEATURE:
; OTHER INFORMATION: Exemplary cyclic peptide
US-10-714-564A-323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; OTHER INFORMATION: Exemplary cyclic peptide US-10-714-564A-324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; OTHER INFORMATION: Exemplary cyclic peptide US-10-714-564A-325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                 Query Match
Best Local Similarity 66.7
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 66.7
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 66.7
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CRSWVW 6
                                                                                                                                                                    1 CANWVW 6
                                                                                                                                                                                         | :|||
1 CRSWVW 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 CANWVW 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 CRSWVW 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 CANWVW 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 325
LENGTH: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                        d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
```

THIS PAGE BLANK (USPIC)

```
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MA
USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           02154
                                                                                                                                                                                                                                                                                                                         RESULT 1
US-08-467-023-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                 (without alignments)
69.120 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                114,
169,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                    June 20, 2005, 14:22:28 ; Search time 21.6 Seconds
                                                                                                                                                                                                                                                                                                                                                                                                                        /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
/cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
/cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
/cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
/cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
/cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-467-023-55
US-09-142-524D-74
US-09-142-524D-74
US-09-142-524D-72
US-08-467-023-54
US-08-467-023-54
US-08-934-915-107
US-08-934-915-107
US-08-931-18A-138
US-08-922-048-146
US-08-922-048-146
US-08-922-048-125
US-08-111-681C-154
US-09-111-681C-165
US-08-433-318A-120
US-08-433-318A-120
US-08-433-318A-120
US-08-922-048-122
US-08-922-048-122
US-08-922-048-122
US-08-922-048-122
US-08-922-048-122
US-08-922-048-123
US-08-922-048-123
US-08-922-048-123
US-08-922-048-123
US-08-922-048-123
US-08-922-048-123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-433-318A-169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .08-433-318A-106
                                                                                                                                                                                                                                                                          Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                               513545 seqs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SUMMARIES
                                                                                                                                                                                                                                                                                                                                                 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                         OM protein - protein search, using sw model
                                                                                                                                                           119
1 CANWVWRSTQDSFNNGAYFV 20
                                                                                                                                                                                                     BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                            Issued_Patents_AA:*
                                                                                                                                          US-09-202-464-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query
Match Length DB
                                                                                                                                                                                                                                                                                                        Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                           Perfect score:
                                                                                                                                                                                                     Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score
                                                                                                                                                                           Seguence:
                                                                                                                                                                                                                                                Searched:
                                                                                                                                                                                                                                                                                                                                                                                                             Database
                                                                                     е
Б
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Result
No.
                                                                                     Run
```

Sequence 177, App Sequence 106, App Sequence 114, App Sequence 169, App	Sequence 177, App Sequence 122, App Sequence 130, App Sequence 185, App			Sequence 161, App Sequence 90, Appl
US-08-433-318A-177 US-08-922-048-106 US-08-922-048-114 US-08-922-048-169	US-08-922-048-177 US-09-111-681C-122 US-09-111-681C-130 US-09-111-681C-185	US-09-111-681C-193 PCT-US96-06270-106 PCT-US96-06270-114 PCT-US96-06270-119	PCT-US96-06270-177 US-08-433-318A-90 US-08-433-318A-98 US-08-433-318A-153	US-08-433-318A-161 US-08-922-048-90
4 6 6 6	0444	4 20 20 20	5444	14 6
4 4 4 4 1 1 1 1	4444	* * * * * *	4 C C C	15
2 2 2 2 3 3 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	288.6	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	228.6	
31 31 31 34 34	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	989.44 98 98 98 98 98 98 98 98 98 98 98 98 98	0 H 24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	44 34

ALIGNMENTS

```
RESULT 1

Sequence 55, Application US/08467023

Patent No. 603366

GENERAL INPORATION

JAPLICANT CAILECK, Johnne;

APPLICANT POLIOCK, Johnne;

APPLICANT BOND, Julian F;

APPLICANT BOND, Julian F;

APPLICANT RO, Med -Chang,

APPLICANT EALEY, MARK A;

APPLICANT EXAMPLE ALBORNE;

APPLICANT POLOGE, Johnne;

APPLICANT POLOGE;

APPLICANT POWERTION:

APPLICANT POWERTION:

APPLICANT POWERS SENDERS:

APPLICANT POWERS SENDERS:

APPLICANT POWERS SENDERS:

APPLICANT POWERS SENDERS:

ADDRESSEE INMUNION:

APPLICANT POWERS SENDERS:

ADDRESSEE INMUNION:

STREET:

COMPUTER:

ADDRESSEE INMUNION:

STREET:

COMPUTER:

MEDIUM TYPE: POLOGE/MS.DOS

SOFTWARE:

COMPUTER:

MEDIUM TYPE: POLOGE/MS.DOS

SOFTWARE:

APPLICANTION NUMBER:

APPLICANTION NUMBER:

APPLICANTION NUMBER:

ATTENDERS SENDERS:

APPLICANTION NUMBER:

ATTENDERS SENDERS:

APPLICANTION NUMBER:

ATTENDERS SENDERS:

ATTENDERS SENDERS

TELEPHONE:

ATTENDERS SENDERS

TELEPHONE

TELE
```

```
GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kazuo
APPLICANT: Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: 1994-09-09
APRICANT: 1997-03-10
ANDHER OF SEQ ID NOS: 174
SEQ ID NO 72
LENGTH: 15
                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Griffeth, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Dowers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immulcogic Pharmaceutical Corporation, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 57; DB 4; Length 15;
Pred. No. 0.032;
2; Mismatches 0; Indels
                                                                     Length 15;
                                                                                                                   2; Indels
  ; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 60 US-09-142-524D-74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; LOCATION: (1).7(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 58
US-09-142-524D-72
                                                                   Score 67; DB 4;
Pred. No. 0.001;
                                                                                                                   1; Mismatches
                                                                                                                                                                                                                                                                                                                        ; Sequence 72, Application US/09142524D
; Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-467-023-54
; Sequence 54, Application US/08467023
; Parent No. 6090386
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    47.9%;
                                                                   Query Match 56.3%;
Best Local Similarity 80.0%;
Matches 12; Conservative
                                                                                                                                                              6 WRSTQDSFNNGAYFV 20
                                                                                                                                                                                                         1 WOSTÓDVEYNGAYEV 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 CANWVWRSTQ 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                02154
                                                                                                                                                                                                                                                                          RESULT 4
US-09-142-524D-72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STATE: MA
                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Squence 74, Application US/09142524D

Patent No. 671976

GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Sone, Toshio
APPLICANT: Wame, Akinori
APPLICANT: Wame, Akinori
APPLICANT: Wame, Akinori
APPLICANT: Wind, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT APPLICATION NUMBER: PCT/JP97/00740

PRIOR APPLICATION WHERE: PCT/JP97/00740

NUMBER OF SEQ ID NOS: 174
SSOFTWARE: PatentIn version 3.1

SSOFTWARE: PatentIn version 3.1

SED ID NO 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: Deptide-Based Immunotherapeutic Agent for Treating Allergic Disea FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: 0.99/142,524D
CURRENT FILING DATE: 1999-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
WUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 73
                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                             ·,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                           Query Match 82.4%; Score 98; DB 3; Length 20; Best Local Similarity 80.0%; Pred. No. 3.1e-08; Matches 16; Conservative 2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          59.7%; Score 71; DB 4; Length 15; 73.3%; Pred. No. 0.00025; Live 2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; LOCATION: (1). (15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 59
US-09-142-524D-73
                                                                                                                                                                                                                                                  RESULT 2
US-09-140-524D-73
Sequence 73, Application US/09142524D
Sequence 73, Application US/09142524D
GENERAL INFORMATION:
APPLICANT: Sone, Toshio;
APPLICANT: Kume, Akinori
APPLICANT: Nume, Akinori
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
                                                                                                                                        1 CANWVWRSTQDSFNNGAYFV 20
                                                                                                                                                                1 CSNWVWQSTQDVFYNGAYFV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 CANWVWRSTQDSFNN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 CSNWVWQSTQDVFYN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 73.3%
Then 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: MISC FEATURE LOCATION: (1)...(15)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-142-524D-74
US-08-467-023-55
                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                            APPLICANT: Griffeth, Irwin J.;
APPLICANT: Bollock, Joanne;
APPLICANT: Bollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mal-Chang;
APPLICANT: Kuo, Mal-Chang;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Dowers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSES: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 41; DB 3; Length 20;
Pred. No. 11;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER FEADABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 107, Application US/08934915
Patent No. 592412
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: DILLNER, LENA
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEE-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOWAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
                                                                     Sequence 56, Application US/08467023 Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      34.5%;
80.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11 DSFNNGAYFV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 DVFYNGAYFV 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-934-915-107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 6

US-09-142-524D-75

i Sequence 75, Application US/09142524D

i Patent No. 6719976

i GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Manne, Akinori

APPLICANT: Wanne, Akinori

APPLICANT: Wanne, Akinori

APPLICANT: Wanne, Akinori

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

FILE REFERENCE: SPO-103

CURRENT FILING DATE: 1998-09-09

PRIOR PILING DATE: 1997-009

PRIOR PILING DATE: 1997-009

NUMBER OF SEQ ID NOS: 174

SOFTWARE: Patentin version 3.1

SEQ ID NO 75

TYPE: PRT

ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   34.5%; Score 41; DB 4; Length 15; 80.0%; Pred. No. 8; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 3; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Indels
                                                                               CURRENT APPLICATION DATA:

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,023

FILING DATE: Unne 6, 1995

CLASSIFICATION: 424

PRIOR PAPLICATION DATA:

APPLICATION NUMBER: 04/350,225

FILING DATE: December 6, 1994

ATTORNEY/AGENT INPORMATION:

NAME: Jane E. Remilland

REGISTRATION NUMBER: 38,872

REFERENCE/DOCKET NUMBER: 38,872

REFERENCE/DOCKET NUMBER: 38,872

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION ON 1850 IN 227-7940

INFORMATION FOR SEQ ID NO: 54:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 aming acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION: (1). (15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 61
US-09-142-524D-75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 47.9%; Score 57; DB 3; Best Local Similarity 80.0%; Pred. No. 0.044; Matches 8; Conservative 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 80.0°
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE: peptide FRAGMENT TYPE: internal
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11 CSNWVWQSTQ 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11 DSFNNGAYFV 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 DVFYNGAYFV 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 CANWVWRSTQ 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-08-467-023-54
```

g

셤

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 h Similarity 66.7%; Pred. No. 58; 2; Indels 4; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 34; DB 1; Length 10; Pred. No. 58;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
APPLICANT: Greene, Mark I.
TITLE OF INVENTION: COMPOUNDS THAT BIND TO p185 AND
TITLE OF INVENTION: METHODS OF USING THE SAME
NUMBER OF SEQUENCES: 184
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz &
ADDRESSEE: Wo. 5663144ris
STREET: One Liberty Place - 46th Floor
CITY: Philadelphia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION DATA:

APPLICATION DATA:
APPLICATION NUMBER: US/08/433,318A
FILING DATE: 03-MAY-1995
CLASSIFICATION DATA:
PRIOR APPLICATION 514
PRIOR APPLICATION DATA:
PRIOR APPLICATION OWNBER:
FILING DATE:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Mark Defuca
REGISTRATION NUMBER: 33,229
REFERENCE/DOCKET NUMBER: UN-2106
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION SEQ 15 568-3100
TELECOMMUNICATION FOR SEQ 15 568-3101
                              PILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Mark DeLuca
REGISTRATION NUMBER: 33,229
REGISTRATION NUMBER: UPN-2106
TELEPHONE: (215) 568-3100
TELEPHONE: (215) 568-3139
INFORMATION FOR SEQ ID NO: 138:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-433-318A-146
; Sequence 146, Application US/08433318A
; Patent No. 5663144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.5 INCH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC Compatibl
OPERATING SYSTEM: Windows
                                                                                                                                                                                                                                                                                                                                                                                                                                                          28.6%;
Similarity 66.7%;
4; Conservative
                                                                                                                                                                                                                                                                                                                                                                          ; MOLECULE TYPE: peptide US-08-433-318A-138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: peptide
        APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      unknown
                                                                                                                                                                                                                                                                                                                                                          unknown
                                                                                                                                                                                                                                                                                                                         TYPE: amino acid
TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 CANWVW 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 CENWEW 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-433-318A-146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STATE: PA
COUNTRY:
                                                                                                                                                                                                                                                                                                     LENGIH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ij
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ..
7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 9
US-08-433-318A-138
i Sequence 138, Application US/08433318A
i Patent No. 5663140.
i GENERAL INFORMATION:
i APPLICANT: Greene, Mark I.
i TILE OF INVENTION:
i TILE OF INVENTION:
i TILE OF SEQUENCES: 184
CORRESPONDENCE S: 184
CORRESPONDENCE Mashburn Kurtz Mackiewicz & ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & STREET: One Liberty Place - 46th Floor
CIT: Da
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 31.1%; Score 37; DB 2; Length 20; Best Local Similarity 57.1%; Pred. No. 44; Matches 8; Conservative 1; Mismatches 3; Indels
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR TITLE OF INVENTION: UDAGMOSTIC PURPOSES CORRESPONDENCE: 193
CORRESPONDENCE ADDRESS: ADDRESSES: ADDRESSES: ADDRESSES: ASSOCIATES, P.A.
CITREET: 17757 U.S. HWY. 19 NORTH, SUITE 500 CITY: CLEARWATER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDIUM TYPE: DISKETTE, 3.5 INCH
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: Windows
SOFTWARE: WORDPERFECT 6
CURRENT APPLICATION DATA:
RPLICATION NUMBER: US/08/433,318A
FILING DATE: 03-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                                                                                                    CITY: CLEARWATER
STATE: FLORIDA
COUNTY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: WINDOWS 3.0
SOFTWARE: MICROSOft WORD 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIPICATION NUMBER: 07/949,836
FILING DATE: APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE: APPLICATION NUMBER: US/040,836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: LOUISE A. FOUCCh
REGISTRATION NUMBER: 37,133
REFREDNCE/POCKET NUMBER: 1946
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   37,133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO: 107:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4 WVWRST--QDSFNN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 WIQRQTVLQHSFNN 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      , MOLECULE TYPE: peptide US-08-934-915-107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETT
```

g

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 154, Application US/09111681C
; Sequence 154, Application US/09111681C
; Retent No. 641168
; GENERAL INFORMATION:
; APPLICANT: Greene, Mark I.
; APPLICANT: Greene, Mark I.
; APPLICANT: Park, Byeong Woo
; TITLE OF INVENTION: Compositions And Methods Of Treating Tumors
; FILE OF INVENTION: Compositions And Methods Of Treating Tumors
; FILE OF INVENTION: UNMBER: US/09/111,681C
; CURRENT FILING DATE: 1998-07-08
; RIOR APPLICATION NUMBER: 60/076,788
; RIOR FILING DATE: 1998-03-04
; NUMBER: OF SEQ ID NOS: 200
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 2; Length 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 34; DB 4; Length 10;
Pred. No. 58;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 34; DB 2
Pred. No. 58;
0; Mismatches
                                                                                                                                                                                                                                                                                                                              NAME: Mark Deluca
REGISTRATION NUMBER: 33,229
REFERENCE/DOCKET NUMBER: UPN-2106
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-3100
TELEPHONE: (215) 568-3439
INFORMATION FOR SEQ ID NO: 146:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                       FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/433,318
FILING DATE: 03-MAX-1995
ATTORNEY/AGENT INFORMATION:
STATE: PA
COUNTRY: USA
ZIP: 19103
COMPOTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.5 INCH
COMPUTER: IBM PC COMPACTIBLE
OPERATING SYSTEM: Windows
SOFTWARE: WORDPERFECT 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ) OTHER INFORMATION: Synthetic Sequence US-09-111_681C-154
                                                                                                                                            SOFTWARE: WORDPERFECT 6
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/922,048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 66.7%;
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 66.7
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acid
TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 CANWVW 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 CANWVW 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2 CENWEW 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 CENWEW 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-111-681C-154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-08-922-048-146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                          RESULT 11
US-08-922-048-138
is Sequence 138, Application US/08922048
is Patent No. 59197644
is GENERAL INFORMATION:
APPLICANT. Greene, Mark I.
ITILE OF INVENTION: METHODS OF USING THE SAME
ITILE OF INVENTION: METHODS OF USING THE SAME
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz &
ADDRESSEE: No. 5919764ris
STREET: One Liberty Place - 46th Floor
CITY: Philadelphia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 2; Length 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-922-048-146
; Sequence 146, Application US/08922048
; Sequence 146, Application US/08922048
; Patent No. 5919764
; GENERAL INFORMATION:
    APPLICANT: Greene, Mark I.
; TITLE OF INVENTION: COMPOUNDS THAT BIND TO pl85 AND ITILE OF INVENTION: METHODS OF USING THE SAME NUMBER OF SEQUENCES: 184
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & ADDRESSEE: No. 5919764xi8
; STREET: One Liberty Place - 46th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 34;
Pred. No. 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/433,318
FILING DATE: 03-MAY-1995
ATTORNEY/AGENT INFORMATION:
NAME: MARK DELUCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: WORDERFECT 6
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/922,048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REGISTRATION NUMBER: 33,229
REFERENCE/DOCKET NUMBER: UPN-2106
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                            ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.5 INCH
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: Windows
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        138:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEPHONE: (215) 568-3100
TELEPAX: (215) 568-3439
INFORMATION FOR SEC ID NO: 138
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ouery Match
Best Local Similarity 66.7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: unknown;
MOLECULE TYPE: peptide
US-08-922-048-138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: Philadelphia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    amino acid
                         CANWVW 6
                                                       CENWEW 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 CANWVW 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CENWEW 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                         ઠે
```

```
Search completed: June 20, 2005, 16:00:52 Job time: 21.6 secs
                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
RESULT 14
US-09-111-681C-162
; Sequence 162, Application US/09111681C
; Patent No. 6417168
; GENERAL INFORMATION:
; APPLICANT: Greene, Mark I.
; APPLICANT: Greene, Mark I.
; APPLICANT: O'Rourke, Donald M.
; APPLICANT: Park, Byeong Woo
; TITLE OF INVENTION: Compositions And Methods Of Treating Tumors
; FILE REFERENCE: UP09458
; CURRENT FILING DATE: 1998-07-08
; FILM CAPPLICATION NUMBER: 60/076,788
; RIOR FILING DATE: 1998-03-04
; NUMBER OF SEQ ID NOS: 200
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 138, Application PC/TUS9606270
GENERAL INFORMATION:
APPLICANT: Greene, Mark I.
APPLICANT: Zhang, Xin
TITLE OF INVENTION: COMPOUNDS THAT BIND TO p185 AND
TITLE OF INVENTION: METHODS OF USING THE SAME
NUMBER OF SEQUENCES: 184
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & Norris
STREET: One Liberty Place - 46th Floor
CITY: Philadelphia
STATE: PA
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28.6%; Score 34; DB 4; Length 10; 66.7%; Pred. No. 58; 2; Indels tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.5 INCH
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS
SOFTWARE: WONDERREGT 5.1
CURRENT APPLICATION NATA:
APPLICATION NUMBER: PCT/US96/06270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
CLASTPICATION:
PRIOR APPLICATION:
PRIOR APPLICATION:
APPLICATION NUMBER: US 08/433,318
FILING DATE:
ATORNEY/AGENI INFORMATION:
NAME: Mark Deluca
REGISTRATION NUMBER: 33,229
REFERENCE/DOCKET NUMBER: UPN-2748
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-3100
TELEPHONE: (215) 568-3100
TELEPHONE: (215) 568-3100
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OTHER INFORMATION: Synthetic Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 66.7
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 CANWWW 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CENWEW 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 15
PCT-US96-06270-138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-111-681C-162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
```

```
Gaps
                                                                                  ö
                                                   Score 34; DB 5; Length 10;
Pred. No. 58;
0; Mismatches 2; Indels
                                                    Query Match
Best Local Similarity 66.7
Matches 4; Conservative
            MOLECULE TYPE: peptide PCT-US96-06270-138
unknown
                                                                                                               1 CANWVW 6
                                                                                                                                            2 CENWEW 7
TOPOLOGY:
```

```
(without alignments)
106.072 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Published Applications AA:*

1: /cgm2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
2: /cgm2_6/ptodata/2/pubpaa/PCT_MEW_PUB.pep:*
3: /cgm2_6/ptodata/2/pubpaa/PCT_MEW_PUB.pep:*
4: /cgm2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
5: /cgm2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
6: /cgm2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
7/cgm2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
8: /cgm2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
9: /cgm2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
11: /cgm2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
11: /cgm2_6/ptodata/2/pubpaa/US09E_PUBCOMB.pep:*
11: /cgm2_6/ptodata/2/pubpaa/US09E_PUBCOMB.pep:*
13: /cgm2_6/ptodata/2/pubpaa/US09E_PUBCOMB.pep:*
14: /cgm2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
15: /cgm2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
16: /cgm2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
17: /cgm2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
18: /cgm2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
19: /cgm2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
19: /cgm2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
19: /cgm2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
21: /cgm2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
22: /cgm2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
                                                                                                                                                                                          June 20, 2005, 15:55:27; Search time 72.4 Seconds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  332641
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1714042 seqs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Listing first 45 summaries
                                                                                                                               OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                   106
1 DSFNNGAYFVSSGKNEGTNI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Post-processing: Minimum Match 0% Maximum Match 100%
                                                                                                                                                                                                                                                                                                                                 US-09-202-464-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Scoring table:
                                                                                                                                                                                                                                                                                                                                                                   Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Searched:
                                                                                                                                                                                                                                                                                                                                                                                                  Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Database
                                                                                                                                                                                             Run on:
                                                                                                                                                                                                                                                                                                                                 Title:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

					SUMMARIES		
		de					
Result	,	Query	Query	1	;		
0 0	score	March	гепдси	e E	at	Description	
п	63	59.4	15	14	US-10-354-240-76	Sequence 76, Appl	
7	09	9.95	15	14	US-10-354-240-75	Sequence 75, Appl	
m	51	48.1	20	14	US-10-354-240-12	Sequence 12, Appl	
4	41	38.7	15	14	US-10-354-240-74	Sequence 74, Appl	
ι,	37	34.9	80	σ	US-09-962-445-15	Sequence 15, Appl	
9	36	34.0		14	US-10-354-240-77	Sequence 77, Appl	
7	36	34.0	20	14	US-10-216-484-41	Sequence 41, Appl	
80	36	34.0	••	14	US-10-384-933-41	Sequence 41, Appl	
σ	35	33.0	_	17	US-10-654-601-2100	Sequence 2100, Ap	
10	33	31.1	19	14	US-10-082-014-147	Sequence 147, App	
11	33	31.1	19	14	US-10-372-076-177	Sequence 177, App	

ö

Gaps

ö

Sequence 177, App Sequence 39, Appl Sequence 3131, Ap Sequence 3131, Ap Sequence 31786, A Sequence 138, App Sequence 137, App Sequence 137, App Sequence 15, Appl Sequence 4, Appl Sequence 4, Appl Sequence 4, Appl Sequence 46, Appl Sequence 1734, App Sequence 16, Appl Sequence 1734, Appl	1016 133, 183, 1013, 1018 1018 1018 1018 1018 1018
16 US-10-677-074-177 10 US-09-991-433-39 10 US-09-980-748-3131 15 US-10-293-418-3131 16 US-10-76-013-314 16 US-10-657-022-137 16 US-10-657-022-137 16 US-10-657-022-137 17 US-10-882-244-15 18 US-09-819-664-4 19 US-09-819-664-4 15 US-10-234-579-4 15 US-10-234-579-4 17 US-10-234-579-4 18 US-10-234-579-4 19 US-10-234-579-4 11 US-10-234-579-4 12 US-10-234-579-4 13 US-10-234-579-4 14 US-10-234-579-4 15 US-10-234-579-4 17 US-10-235-468-93	7777777777777
200000000000000000000000000000000000000	
200 200 200 200 200 200 200 200 200 200	222222222222222222222222222222222222222
113 114 115 116 117 118 118 128 129 129 129 129 129 129 129 129 129 129	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

ALIGNMENTS

```
APPLICANT: SONG TOSHIO

APPLICANT: SONG AKINOTI

APPLICANT: Mame, Akinori

APPLICANT: Mare, Akinori

APPLICANT: Mare, Akinori

APPLICANT: Wine, Akinori

APPLICANT: Wine, Makko

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Disea

FILE REFERENCE: SONG-10-29

PRIOR APPLICATION NUMBER: US/10/354,240

PRIOR APPLICATION NUMBER: DET/JP97/00740

PRIOR PILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 76

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 59.4%; Score 63; DB 14; Length 15; Best Local Similarity 86.7%; Pred. No. 0.011; Matches 13; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCATION: (1). 7(15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 62
                        Sequence 76, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: MISC_FEATURE
JS-10-354-240-76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-354-240-76
```

```
Sequence 74, Application US/10354240

| Bublication No. US20030185847A1
| Sequence 74, Application US/10354240
| Publication No. US20030185847A1
| GENERAL INFORMATION:
| APPLICANT: Sone, Toshio
| APPLICANT: Mame, Akinori
| APPLICANT: Dairiki, Kazuo
| APPLICANT: Mame, Akinori
| APPLICANT: Mame, Akinori
| APPLICANT: Mame, Akinori
| APPLICANT: Mino, Kohauke
| TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
| TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
| TILE REFERENCE: SPO-103D1
| CURRENT FILING DATE: 2003-01-29
| PRIOR APPLICATION NUMBER: US 09/142,524
| PRIOR PILING DATE: 1998-09-09
| NUMBER OF SEQ ID NOS: 174
| SEQ ID NO 74
| SEQ ID NO 74
| LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: MATSUGHITA, Sho et al.
TITLE OF INVENTION: Clonal Expansion of T Cells of Unknown Specificity and Identificat
TITLE OF INVENTION: Clonal Expansion of T Cells of Unknown Specificity and Identificat
TITLE OF INVENTION: Clonal Expansion of T Cells
FILE REPERENCE: 0020-4906P
CURRENT APPLICATION NUMBER: US/09/962,445
CURRENT FILING DATE: 2001-12-28
PRIOR PAPLICATION NUMBER: US 2001-79621
PRIOR PAPLICATION NUMBER: J2 2001-03-21
NUMBER OF SEQ ID NOS: 15
SEQ ID NO 15
LENGTH: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               38.7%; Score 41; DB 14; Length 15; 80.0%; Pred. No. 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 37; DB 9; Length 8; Pred. No. 1.6e+06; 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (1)...(15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 60
US-10-354-240-74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-962-445-15
; Sequence 15, Application US/09962445
; Publication No. US/0020192705A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   , ORGANISM: Japanese cedar pollen
US-09-962-445-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 87.5%;
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 38.7
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 DSFNNGAYFV 10
                          11 SSGKNEGTNI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6 DVFYNGAYFV 15
                                                                        1 SSGKNEGTNI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3 FNNGAYFV 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 FYNGAYFV
                                                                                                                                                                             US-10-354-240-74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                  g
                          ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  squence 12, Application US/10354240

gequence 12, Application US/10354240

publication No. US2030185847A1

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Name, Akinori

APPLICANT: Iwama, Akiko

APPLICANT: Iwama, Akiko

APPLICANT: Kino, Koheuke

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TILE REFERENCE: SPO-10301

CURRENT FILING DATE: 2003-01-29

PRIOR APPLICATION NUMBER: US/10/354,240

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR PILING DATE: 1998-09-09

WUMBER OF SEC ID NOS: 174

SOFTWARE: PatentIn version 3.1
                                                                                                                                                                   Squence 75, Application US/10354240

Squence 75, Application US/10354240

Publication No. US20030185847A1

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Rume, Akinori

APPLICANT: Name, Akinori

APPLICANT: Name, Akinori

APPLICANT: Name, Akino

APPLICANT: Name, Akino

APPLICANT: Name, Akino

APPLICANT: Name, Akino

CURRENT: Rino, Kohauke

TITLE OF INNORTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INNORTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

CURRENT APPLICATION NUMBER: US/10/354,240

CURRENT FILING DATE: 1999-03-10

PRIOR APPLICATION NUMBER: DCT/JP97/00740

PRIOR APPLICATION NUMBER: US 09/142,524

PRIOR PILING DATE: 1999-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: Patentin version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ch 48.1%; Score 51; DB 14; Length 20; 1 Similarity 100.0%; Pred. No. 1; 10; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       56.6%; Score 60; DB 14; Length 15; 85.7%; Pred. No. 0.032; Live 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCATION: (1). (15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Cryptomeria japonica
GAYFVSSGKNEGTNI 20
                                GAYFVSSGKYEGGNI 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 DSFNNGAYFVSSGK 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DVFYNGAYFVSSGK 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: MISC FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity
Matches 12; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 3
US-10-354-240-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-354-240-75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 12
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                             셤
  ò
```

```
AFFLICANTI EDIMINIDE LINC.

TITLE OF INVENTION: Inducing Cellular Immune Responses to Hepatitis B Virus
TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions
FILE REFERENCE: 2060.006007
CURRENT APPLICATION NUMBER: US/09/239,043
PRIOR PLING DATE: 1999-01-27
PRIOR PLING DATE: 1999-01-27
PRIOR PLING DATE: 1999-11-10
PRIOR PLING DATE: 1999-11-12
PRIOR PLING DATE: 1997-11-25
PRIOR PLING DATE: 1997-11-25
PRIOR PLING DATE: 1997-11-36
PRIOR PLING DATE: 1997-13-12
PRIOR PLING DATE: 1997-13-12
PRIOR PLING DATE: 1997-13-12
PRIOR PLING DATE: 1997-13-12
PRIOR PLING DATE: 1997-13-13
PRIOR PLING DATE: 1996-03-13
PRIOR PLING DATE: 1997-03-12
PRIOR PLING DATE: 1997-13-12
PRIOR PLING DATE: 1998-10-10
PRIOR PLING DATE: 1997-13-12
PRIOR PLING DATE: 1997-13-12
PRIOR PLING DATE: 1994-12-01
PRIOR PLING DATE: 1994-12-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
Sequence 41. Application US/10384933

Publication No. US20030170817A1

GENERAL INFORMATION:

APPLICANT: Serizawa, No. US20030170817A1ufusa

APPLICANT: Haruyama, Hideyuki

APPLICANT: Takahasahi, Tohu

APPLICANT: Takahasahi, Tohu

TITLE OF INVENTION: Anti-Fas Antibodies

FILE REFERENCE: 980126CTF/HG

CURRENT FILING DATE: 2003-02-05

FRIOR PEPLICATION NUMBER: US/10/384,933

CURRENT FILING DATE: 2000-02-09

FRIOR PELING DATE: 2000-02-09

FRIOR PELING DATE: EARLIER FILING DATE: 1998-04-01

NUMBER OF SEQ ID NOS: 165

SEQ ID NO 41

LENGTH: 20

MANDEL DATE: 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 36; DB 14; Length & Pred. No. 1.98+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: US 08/344,824 PRIOR FILING DATE: 1994-11-23 PRIOR APPLICATION NUMBER: US 08/278,634
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 2100, Application US/10654601 Publication No. US20050063983A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Livingston, Brian D.
Celis, Esteban
Kubo, Ralph T.
Grey, Howard M.
Chesnut, Robert
Epinmune Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     34.0%;
80.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sidney, John
Southwood, Scott
Vitiello, Maria A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Sette, Alessandro APPLICANT: Sidney, John
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11 SSGKNEGTNI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 SSGKYEGGNI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-384-933-41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                    TITLE OF INTEXTION, NOUSE CONTRIBUTED TO THE OF INTEXTION, NOUSE CONTRIBUTED OF INTEXTION OF INTEXTION OF INTEXTION INTEXTION INTEXTION INTEXTION INTEXTION OF INTEXTION INTEXTION INTEXTION INTEXTION INTEXTION INTEXT (INTEXTION INTEXT) (INTEXT) (I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 36; DB 14; Length 20;
Pred. No. 1.9e+02;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    34.0%; Score 36; DB 14; Length 15; 80.0%; Pred. No. 1.4e+02; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             i LOCATION: (1). Total
i OTHER INFORMATION: Cryjl peptide, Figure 1, Row 63
US-10-354-240-77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 41. Application US/10216484

Publication No. US2003010397641

GENERAL INPORMATION:

APPLICANT: Serizawa, No. US20030103976Alufusa

APPLICANT: Tamaki, Ikuko

APPLICANT: Tamaki, Ikuko

APPLICANT: Tamaki, Ikuko

APPLICANT: Tamaki, Ikuko

TITLE OF INVENTION: Anti-Fas Antibodies

PILE REFERENCE: 980126CTP/HG

CURRENT APPLICATION NUMBER: US/10/216,484

CURRENT FILING DATE: 2002-08-09

PRIOR APPLICATION NUMBER: US/09/499,662

PRIOR APPLICATION NUMBER: US

PRIOR FILING DATE: 1998-04-01

PRIOR FILING DATE: 1998-04-01

SEQ ID NO 41

LENGTH: 20
                     Sequence 77, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Cryptomería japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    34.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                    APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    34.0
Best Local Similarity 80.0
Matches 8, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11 SSGKNEGTNI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SSGKYEGGNI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11 SSGKNEGTNI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 SSGKYEGGNI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 7
US-10-216-484-41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-216-484-41
```

셤

ઠ 윱

; 0

```
Sequence 177, Application US/10677074

Sequence 177, Application US/10677074

Publication No. US20040156863A1

GENERAL INFORMATION:

APPLICANT: Page, Martin

APPLICANT: Schmidt, Annette Elisabeth

APPLICANT: Stober, Detlef

TITLE OF INVENTION: CHRONIC HEPATITIS

FILE SPERERENE. 4564/8119

PRIOR PELLING DATE: 2002-02-21

PRIOR PELLING DATE: 2002-02-21

PRIOR PILING DATE: 2002-02-21

PRIOR PILING DATE: 2002-02-21

PRIOR PILING DATE: 2002-02-22

NUMBER OF SEC ID NOS: 308

SOFTWARE: PATENTIN VERSION 3.2

SEQ ID NO 177

LENGTH: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WESOLI 1991-391-39

y Sequence 39, Application US/09991433

y Sequence 39, Application US/09991433

y Publication No. USZ0030017596A1

y Reberal INFORMATION:
y APPLICANT: Broliden, Kristina
y APPLICANT: Westgren, Magnus
y TITLE OF INVENTION: USE OF PARVOIRUS CAPSID PARTICLES IN
TITLE OF INVENTION: USE OF PARVOIRUS CAPSID PARTICLES IN
TITLE OF INVENTION: USE OF PARVOIRUS CAPSID PARTICLES IN
TITLE OF INVENTION: USE OF PARVOIRUS CAPSID PARTICLES IN
TITLE OF INVENTION: USE OF PARVOIRUS CAPSID PARTICLES IN
TITLE OF INVENTION: USE 09/491,433

CURRENT APPLICATION NUMBER: US 09/447,693

PRIOR FILING DATE: 1999-11-23

y PRIOR FILING DATE: 1998-11-24

x NUMBER OF SEQ ID NOS: 63

y SOFTWARE: FastSEQ for Windows Version 4.0

y SEQ ID NO 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; OTHER INFORMATION: Peptide fragments derived from parvovirus capsid US-09-991-433-39
                                  Query Match 31.1%; Score 33; DB 14; Length 19; Best Local Similarity 41.7%; Pred. No. 5.1e+02; Matches 5; Conservative 3; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 33; DB 16;
Pred. No. 5.1e+02;
3; Mismatches 4,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Neisseria meningitidis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 41.7
Matches 5; Conservative
                                                                                                                                                                               1 NYKNGGFFVQYG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 NYKNGGFFVQYG 12
                                                                                                                                                2 SFNNGAYFVSSG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 SFNNGAYFVSSG 13
                                                                                                                                                                                                                                                                                                            US-10-677-074-177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-677-074-177
                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 147, Application US/10082014
Publication No. US20030185858A1
Publication No. US20030185858A1
Publication No. US2003018585BA1
APPLICANT BIRKET. Ashley J.
TITLE OF INVENTION: IMMUNOGENIC HBC CHIMER PARTICLES STABILIZED WITH AN N-TERMINAL CY
FILE REFERENCE: ICC-130.0 4564/85124
CURRENT PAPLICATION NUMBER: US/10/082,014
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 09/930,915
PRIOR FILING DATE: 2001-08-15
NUMBER OF SEQ ID NOS: 290
SOFTWARE: Patentin Version 3.1
SEQ ID NOS: 270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 177, Application US/10372076

Publication No. US20030198645A1

GENERAL INFORMATION:

APPLICANT: Fade, Markin

TITLE OF INVENTION: STABILIZED HBC CHIMER PARTICLES AS THERAPEUTIC VACCINE FOR

TITLE OF INVENTION: CHRONIC HEPATITIS

FILE REFERENCE: 4564/87179

CURRENT APPLICATION NUMBER: US/10/372,076

CURRENT APPLICATION NUMBER: 10/080,299

PRIOR PILING DATE: 2002-02-21

PRIOR FILING DATE: 2002-02-21

PRIOR FILING DATE: 2002-02-22

PRIOR FILING DATE: 2002-02-22

PRIOR FILING DATE: 2002-03-32

SOFTWARE: PATENTIN NUMBER: 10/082,014

NUMBER OF SEQ ID NOS: 308

SOFTWARE: PATENTIN VERSION 3.2

SEQ ID NO 177

SEQ ID NO 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
PRIOR FILING DATE: 1994-07-21
PRIOR APPLICATION NUMBER: US 08/205,713
PRIOR FILING DATE: 1994-03-04
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 2579
SOFTWARE: PastSEQ for Windows Version 4.0
SEQ ID NO 2100
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                Score 35; DB 17; Length 15;
Pred. No. 2e+02;
2; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 33; DB 14; Length 19;
Pred. No. 5.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4; Indels
                                                                                                                                                                                                                                                   ; ORGANISM: Orthohepadnaviridae hepatitis B virus US-10-654-601-2100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-10-082-014-147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; TYPE: PRT; ORGANISM: Neisseria meningitidis US-10-372-076-177
                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 46.2%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         31.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 6 GAYFVSSGKNEGT 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 41.75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 GLYFPAGGSSSGT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2 SFNNGAYFVSSG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 NYKNGGFFVQYG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 11
US-10-372-076-177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-082-014-147
```

ö

Gaps

```
g
                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                       Sequence 3131, Application US/0980748

Publication No. US2003005937A1

GENERAL INFORMATION:

APPLICANT Ruben et al.

TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS

FILE REFREENCE: PF523

CURRENT APPLICATION NUMBER: US/09/880,748

CURRENT FILING DATE: 2001-06-15

PRIOR APPLICATION NUMBER: 60/240,816

PRIOR PILING DATE: 2000-10-17

PRIOR PILING DATE: 2000-10-17

PRIOR PILING DATE: 2001-03-16

PRIOR PILING DATE: 2001-03-16

PRIOR PILING DATE: 2001-03-16

PRIOR PILING DATE: 2001-03-16

PRIOR PILING DATE: 2001-03-21

PRIOR PILING DATE: 2001-03-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 3131, Application US/10293418
Fublication No. US2000022396A1
Fublication No. US2000022396A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF52P2
CURRENT PLING DATE: 2002-11-27
FRIOR RPELICATION NUMBER: 60/331,469
FRIOR PLING DATE: 2001-11-16
FRIOR PLING DATE: 2001-11-16
FRIOR FILING DATE: 2001-12-19
FRIOR FILING DATE: 2001-06-15
FRIOR FILING DATE: 2001-06-15
FRIOR FILING DATE: 2001-06-15
FRIOR FILING DATE: 2001-03-21
FRIOR FILING DATE: 2001-03-21
FRIOR FILING DATE: 2001-03-21
FRIOR FILING DATE: 2001-03-6/16
FRIOR FILING DATE: 2001-01-16
FRIOR FILING DATE: 2001-01-17
FRIOR FILING DATE: 2001-01-17
FRIOR FILING DATE: 2001-01-17
FRIOR FILING DATE: 2000-10-17
                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;
0
Query Match 30.2%; Score 32; DB 10; Length 20; Best Local Similarity 44.4%; Pred. No. 7.6e+02; Matches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 30.2%; Score 32; DB 10; Length 20; Best Local Similarity 53.8%; Pred. No. 7.6e+02; Matches 7; Conservative 1; Mismatches 5; Indels
                                                                                                                                                 1 DSFNNGAYFVSSGKNEGT 18
                                                                                                                                                                                                   3 DSSNTGAGKALTGLSTGT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 DSFNNGAYFVSSG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | | :| || || 5 DRFWSGGYFHYSG 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
CORGANISM: Homo sapiens
US-09-880-748-3131
                                                                                                                                                                                                                                                                                                                                 RESULT 14
US-09-880-748-3131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 15
US-10-293-418-3131
                                                                                                                                                                                                                  g
                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
```

```
; SEQ ID NO 3131
; LENGTH' 20
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-293-418-3131

Query Match
Best Local Similarity 53.8%; Pred. No. 7.6e+02;
Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps
Qy 1 DSFNNGAYFVSG 13

Qy 1 DSFNNGAYFVSG 13

Db 5 DRFWSGGYFHYSG 17

Search completed: June 20, 2005, 16:29:57
Job time: 72.4 secs
```

THIS PAGE BLANK (USPTO)

```
GENERAL INFORMATION:
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Bollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Exlay, Mark A.;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Tarley Brauer, Allergenic Proteins And Peptides From TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: 1 mmulogic Pharmaceutical Corporation, Inc. STREET: 610 Lincoln St CITY: Waltham . STATE: WA COUNTRY: USA ZIP: 02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION DATA:

SOFTWARE:

CURRENT APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

ATTORNEY/AGENT INFORMATION:

NAME:

ATTORNEY/AGENT INFORMATION:

NAME:

REGISTRATION NUMBER: 38,872

REFERENCE/DOCKET NUMBER: 38,672

REFERENCE/DOCKET NUMBER: 36,5025

TELEPHONE:

TOPOLOGY:

INFORMATION OR S6:

SEQUENCE TYPE:

MOLECULE TYPE:

MOLECULE TYPE:

PERGMENT TYPE:

PERGMENT TYPE:

MOLECULE TYPE:

MOLECULE TYPE:

PERGMENT TYPE:

MOLECULE TYPE:

MOL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-467-023-56; Application US/08467023; Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 75, Appl
Sequence 12, Appl
Sequence 54, Appl
Sequence 18, Appl
Sequence 8, Appli
Sequence 18, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 31, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                               June 20, 2005, 14:22:28; Search time 21.6 Seconds (without alignments) 69:120 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 16,
Sequence 17,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /cgm2_6/ptodata/1/iaa/5A_COMB.pep:*
/cgm2_6/ptodata/1/iaa/5B_COMB.pep:*
/cgm2_6/ptodata/1/iaa/6A_COMB.pep:*
/cgm2_6/ptodata/1/iaa/6B_COMB.pep:*
/cgm2_6/ptodata/1/iaa/PcTUS_COMB.pep:*
/cgm2_6/ptodata/1/iaa/PcTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-467-023-56
US-09-142-524D-75
US-09-142-524D-75
US-09-142-524D-74
US-08-142-524D-74
US-08-142-524D-74
US-08-142-524D-74
US-08-142-524D-77
US-08-1290-448A-54
US-08-175-069A-54
US-08-175-069A-54
US-08-464-000-54
US-08-464-000-54
US-09-239-043D-2100
US-08-239-043D-2100
US-08-239-043D-2100
US-09-074-912-8
US-09-074-912-8
US-09-074-912-8
US-09-239-136-8
5168051-13
US-08-991-433-33
                                                                                                                                                                                                                                                                                                                                                                                                                                         Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-058-483-17
                                                                                                                                                                                                                                                                                                                                                                                              513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SUMMARIES
                                                                                        OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                       106
1 DSFNNGAYFVSSGKNEGTNI 20
                                                                                                                                                                                                                                                                                                                                           Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Patents AA:*
                                                                                                                                                                                                                               US-09-202-464-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Minimum DB seg length: 0
Maximum DB seg length: 20
                                                                                                                                                                                                                                                                                                                          BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Perfect score:
                                                                                                                                                                                                                                                                                                                        Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Database :
                                                                                                                                                                                                                                                                               Sequence:
                                                                                                                                                                                                                                                                                                                                                                                              Searched:
                                                                                                                                      Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
```

7 6	30	28.3	13	v ~	US-U8-811-492-12/ US-08-737-085A-4	Sequence	4, Appli
30	30	28.3	19	m	US-09-246-258-4	Sequence	4, App.
31	30	28.3	19	e	US-09-532-106-4	Sequence	4, App.
32	30	28.3	19	4	US-09-839-666-4	Sequence	4, App.
33	29.5	27.8	15	~	US-08-630-645-12	Sequence	12, App
34	29.5	27.8	15	4	US-08-766-596A-12	Sequence	12, App
35	29.5	27.8	15	Ŋ	PCT-US96-10220-12	Sequence	12, App
36	29	27.4	11	~	US-08-618-696-19	Sequence	19, App.
37	53	27.4	11	۳	US-09-033-753-19	Sequence	19, App]
38	59	27.4	20	4	US-09-643-597-236	Sequence	236, App
39	29	27.4	20	4	US-09-480-884A-236	Sequence	236, A
40	53	27.4	20	4	US-09-542-615A-236	Sequence	236, A
41	53	27.4	20	4	US-09-606-421B-236	Sequence	236, AK
42	59	27.4	20	4	US-09-476-496A-236	Sequence	236, Ar
43	29	27.4	20	4	US-09-630-940B-236	Sequence	236, A
44	28	26.4	12	4	US-09-831-500A-20	Seguence	20, Api
45	28	26.4	12	4	US-09-929-266-13	Sequence	13, Appl

ALIGNMENTS

```
GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Sone, Asio

APPLICANT: Wama, Akinori

APPLICANT: Iwama, Akinori

APPLICANT: Iwama, Akiko

APPLICANT: Iwama, APPLICANTON: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

FILE REFERENCE: SPO-103

CURRENT APPLICATION NUMBER: US/09/142,524D

CURRENT FILING DATE: 1998-09-09

PRIOR FILING DATE: 1997-01-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: PCT/JP97/00740
ROOF FILE OF SEQ ID NOS: 174
SEQ ID NO 74
LENGTH: 15
                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                  Score 60; DB 4; Length 15;
Pred. No. 0.0096;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 48.1%; Score 51; DB 4; Length 20; Best Local Similarity 100.0%; Pred. No. 0.3; Matches 10; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; LUCATION: (1). (15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 60
US-09-142-524D-74
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 61
US-09-142-524D-75
                                                                                                                                                                                                                                                                                                                                                                  Sequence 12, Application US/09142524D Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 74, Application US/09142524D Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-09-142-524D-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 12
LENGTH: 20
                                                                                  Query Match
Best Local Similarity 85.7%;
Matches 12; Conservative
                                                                                                                                                                                       1 DSFNNGAYFVSSGK 14
                                                                                                                                                                                                                                       1 DVFYNGAYFVSSGK 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11 SSGKNEGTNI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 SSGKNEGTNI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (1)..(15)
                                                                                                                                                                                                                                                                                                                  RESULT 4
US-09-142-524D-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-142-524D-74
                                                                                                                                                                                                                                    셤
                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Kume, Akinori

APPLICANT: Kume, Akinori

APPLICANT: Wame, Akiko

APPLICANT: Wino, Kohsuke

TITLE OF INVERTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

FILE REFERENCE: SPO-103

CURRENT APPLICATION NUMBER: US/09/142,524D

CURRENT PILING DATE: 1998-09-09

PRIOR APPLICATION NUMBER: PCT/JP97/00740

PRIOR APPLICATION NUMBER: PCT/JP97/00740

READ READ APPLICATION NUMBER: PCT/JP97/00740

READ READ APPLICATION NUMBER: PCT/JP97/00740

READ APPLICATION NUMBER: PCT/JP97/00740

READ APPLICATION NUMBER: PCT/JP97/00740

READ APPLICATION NUMBER: PCT/JP97/00740

READ APPLICATION NUMBER: PCT/JP97/00740

READ APPLICATION NUMBER: PCT/JP97/00740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea FILE REFERENCE: SPO-103
CURRENT APPLICATION WUMBER: 9599/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
WUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 75
                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                               ..
0
                                                             Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 59.4%; Score 63; DB 4; Length 15; 86.7%; Pred. No. 0.0034; 2; Indels ive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; LOCATION: (1). (15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 62
US-09-142-524D-76
                                                          Score 77; DB 3; Pred. No. 3.6e-05;
                                                          Query Match 72.6%; Score 77; DB Best Local Similarity 80.0%; Pred. No. 3.6e Matches 16; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; Sequence 75, Application US/09142524D
; Patent No. 6719976
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Iwama, Akiko
; APPLICANT: Iwama, Akiko
; APPLICANT: Timana, Akiko
                                                                                                                                                                                                                                                                                                                                    Sequence 76, Application US/09142524D
Patent No. 6719976
                                                                                                                                                                                                          1 DVFYNGAYFVSSGKYEGGNI 20
                                                                                                                                                             1 DSFNNGAYFVSSGKNEGTNI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 GAYFVSSGKYEGGNI 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6 GAYFVSSGKNEGTNI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity 86.7
Matches 13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: MISC_FEATURE LOCATION: (1)..(15)
                                                                                                                                                                                                                                                                                          RESULT 2
US-09-142-524D-76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 3
US-09-142-524D-75
          US-08-467-023-56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
```

```
TELECOMMUNICATION INFORMATION: TELEPHONE: (617)227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11 SSGKNEGTNI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 SSGKYEGGNI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JS-08-290-448A-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ..
0
                                                                                                                                                                                                                                                                                    APPLICANT: Griffeth, Irwin J.;
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Bond, Julian F.;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chiang;
APPLICANT: Kuo, Mei-Chiang;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
                  Score 41; DB 4; Length 15;
Pred. No. 7;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 3; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              E: ImmuLogic Pharmaceutical Corporation, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDIUM TYPE: FLODPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION: DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INPORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/POCKET NUMBER: 38,872
REFERENCE/FOCKET NUMBER: 38,872
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEPAX: (617) 227-7401
TELEPAX: (617) 227-7401
TELEPAX: (617) 227-7401
TELEPAX: (617) 227-7591
INFORMATION FOR SEQ ID NO: 55:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         38.7%; Score 41;
80.0%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-142-524D-77
; Sequence 77, Application US/09142524D
                                                                                                                                                                                                                                         Sequence 55, Application US/08467023 Patent No. 6090386
                    38.7%;
80.0%;
Query Match
Best Local Similarity 80.0°
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
ADDRESSEE: ImmuLogic
STREET: 610 Lincoln S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                   1 DSFNNGAYFV 10
                                                                                                                            6 DVFYNGAYFV 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 DSFNNGAYFV 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 8; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY: US
ZIP: 02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-467-023-55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

```
5 NGAYFVSSG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3 NGAIFVASG 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-175-069A-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-467-023-57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 54, Application US/08290448A
Patent No. 568204
GENERAL INFORMATION:
APPLICANT: Rogers, Bruce
APPLICANT: Rapper, David G.
APPLICANT: Ranar, Thorunn
APPLICANT: Ruo, Mei-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHVE & COCKFIELD
STREET: 60 State Street, suite 510
                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 34.0%; Score 36; DB 1; Length 20; 77.8%; Pred. No. 55; 1; Indels tive 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                   Score 36; DB 1; Length 20;
Pred. No. 55;
                                                                                                                                                                                                                                                                                                                                                     1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: TELORY disk
MEDIUM TYPE: Floppy disk
COMPUTER: Ploppy disk
COMPUTER: Ploppy disk
COMPUTER: Ploppy disk
COMPUTER: Parent PRP
COMPUTER: PARENT PR
COMPUTER: PARENT PARENT PR
COMPUTER: PARENT PARENT PR
COMPUTER: PARENT PAR
                                                                                                                                                                                                                                                                                                                                                     1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 54:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 77.8%;
Matches 7; Conservative 1
TYPE: amino acids TOPOLOGY: 11-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 : 20 amino acids
amino acid
GY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 34.0
Best Local Similarity 77.8
Matches 7; Conservative
          SEQUENCE CHARACTERISTICS
LENGTH: 20 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                               MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Massachusetts
: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5 NGAYFVSSG 13
                                                                                                                                                                                                                                                                                                                                                                                                                        5 NGAYFVSSG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3 NGAIFVASG 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NGAIFVASG 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY: USA
ZIP: 02109-1875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: Boston
STATE: Massac
                                                                                                                                                                                                                 US-08-290-448A-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 9
US-08-290-448A-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-290-448A-54
                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                   APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Klapper, David G.
APPLICANT: Klapper, David G.
APPLICANT: Klapper, David G.
APPLICANT: Ranar, Mai-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSES: LAHLYE & COCKFIELD, LLP
STREET: 60 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang,
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Andrew;
APPLICANT: Browers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1; Length 20; 55;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/175,069A
FILING DATE: December 29, 1993
PRIOR APPLICATION NUMBER: US 07/529,951
FILING DATE: May 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: March 17, 1989
ATTOMENYAGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018DV
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                   ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
Sequence 54, Application US/08175069A
Patent No. 5776761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 57, Application US/08467023 Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Griffeth, Irwin J.;
Pollock, Joanne;
Bond, Julian F.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION FOR SEQ ID NO: 54:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          34.0%;
77.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (617) 227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (617) 227-5941
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       34.0

Query Match
Best Local Similarity 77.8

Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 54, Application US/08464000
Patent No. 6335020
GENERAL INPORMATION:
APPLICANT: Rapper, Bruce
APPLICANT: Rapper, David G.
APPLICANT: Rapper, David G.
APPLICANT: Rainar, Thorunn
APPLICANT: Rodes, Mai-chang
TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 60 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     34.0%; Score 36; DB 3; Length 20; 77.8%; Pred. No. 55; tive 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: 60 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZATAE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/464,000
FILING DATE: 05-JUN-1995
PRIOR APPLICATION NUMBER: US 08/290,448
FILING DATE: 15-AUG-1994
APPLICATION NUMBER: US 07/529,951
FILING DATE: 13-AUG-1990
APPLICATION NUMBER: US 07/529,951
FILING DATE: 17-AMR-1990
APPLICATION NUMBER: US 07/529,951
ATTORNEY/ABRANING NUMBER: US 07/529,951
                            APPLICATION NUMBER: US 08/290,448
FILING DATE: 15-AUG-1994
APPLICATION NUMBER: US 07/529,951
FILING DATE: 29-MAY-1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: 17-WAR-1989
ATTORNEY/AGENT INFORMATION:
NAME: AMY E. Mandragourae
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: 1MI-018CNDV
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION OF SEQ ID NO: 54:
SUBJUENCE CHARACTERISTICS:
         05-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 77.8
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (617) 227-5941
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-461-939B-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: (617)227-594: INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5 NGAYFVSSG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3 NGAIFVASG 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JS-08-464-000-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Klapper, David G.
APPLICANT: Kainer, Thorunn
TITLE OF INVENTION: Methods For Treating Sensitivity To A
TITLE OF INVENTION: Protein Allergen Using Peptides Which Inlcude A T Cell Epitope
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: EM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Pacentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION WINBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
PRIOR APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
TTELECHONIN WINBER: 38,872
REFERENCE/DOCKET NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 38,872
TELECHONIN (617) 227-7400
TELECHONIN (617) 227-7400
TELECHONIN FOR SEQ ID NO: 57:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 3; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2; Indels
CORRESPONDENCE ADDRESS:
ADDRESSER: ImmuLogic Pharmaceutical Corporation, Inc. STRET: 610 Lincoln St CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: BIR PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/461,939B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 36; DB
Pred. No. 55;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/464,000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 54, Application US/08461939B Patent No. 6335019 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 80.0%;
Matches 8; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Boston
STATE: Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11 SSGKNEGTNI 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 SSGKYEGGNI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE:
                                                                                                                                                COUNTRY: US
ZIP: 02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 12
US-08-461-939B-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-467-023-57
```

g

```
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT Livingston, Brian D.
APPLICANT Livingston, Brian D.
APPLICANT Celis, Esteban
APPLICANT Celis, Esteban
APPLICANT Chesur, Rabbh T.
APPLICANT Chesur, Robert
APPLICANT Chesur, Robert
APPLICANT Chesur, Robert
APPLICANT Chesur, Robert
APPLICANT Edinmune Inc.
TITLE OF INVENTION: Unducing Cellular Immune Responses to Hepatitis B Virus
TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions
TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions
TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions
TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions
TITLE OF INVENTION NUMBER: US 09/189,702
RIOR PLILING DATE: 1999-01-27
RRIOR FILING DATE: 1997-11-25
RRIOR FILING DATE: 1997-03-12
RRIOR PLILING DATE: 1997-03-12
RRIOR RPLICATION NUMBER: US 08/461,603
RRIOR RPLICATION NUMBER: US 08/461,603
RRIOR PLILING DATE: 1994-11-23
RRIOR PLILING DATE: 1994-11-23
RRIOR RILING DATE: 1994-07-21
RRIOR RPLICATION NUMBER: US 08/205,713
RRIOR RPLICATION NUMBER: US
                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                               ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                        Score 36; DB 3; Length 20; Pred. No. 55;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4; Length 15;
                                                                                                                                                                                                                                                                                                                                               1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; ORGANISM: Orthohepadnaviridae hepatitis B virus US-09-239-043D-2100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
33.0%; Score 35; DB
Best Local Similarity 46.2%; Pred. No. 56;
Matches 6; Conservative 2; Mismatches
                                                                                                                                                                                                                                                                                                                                               1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; Sequence 2100, Application US/09239043D; Patent No. 6689363
                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 77.8%;
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Vitiello, Maria A.
                        LENGTH: 20 amino acids

TYPE: amino acid

TYPE: amino acid

FOPOLOGY: linear

MOLECULE TYPE: peptide

FRAGMENT TYPE: internal

US-08-464-000-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Sette, Alessandro
APPLICANT: Sidney, John
APPLICANT: Southwood, Scott
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6 GAYFVSSGKNEGT 18
SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                   5 NGAYFVSSG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3 NGAIFVASG 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 14
US-09-239-043D-2100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 2100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                   ò
```

1 GLYFPAGGSSSGT 13

<u>۾</u> ۾

```
REGULT 15

REPLICANT: PISCHETT, Vincent A.

APPLICANT: PISCHETT, Vincent A.

APPLICANT: SCHEREMEND, Olaf

TITLE OF INVENTION: THE SURFACE OF GRAM POSITIVE BACTERIA

TITLE OF INVENTION: THE SURFACE OF GRAM POSITIVE BACTERIA

FILE REPRERENCE: 016921.076

CURRENT APPLICATION NUMBER: US 007/522,440

PRIOR FILING DATE: 1995.00-07

PRIOR PLING DATE: 1995.00-07

PRIOR PRIOR APPLICATION NUMBER: US 07/742,199

PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR PRIOR DATE: 1991.08-05

PRIOR PRIOR
```

us-09-202-464-34.rapb

```
(without alignments)
106.072 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 41,
Sequence 41,
Sequence 78,
Sequence 76,
Sequence 76,
Sequence 7, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 12,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/PCT_BMEW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/NEG_NEW_PUB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US108_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
20: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
21: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
22: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
                                                                                                                     June 20, 2005, 15:55:27 ; Search time 72.4 Seconds
                                                                                                                                                                                                                                                                                                                                                                                332641
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-354-240-12
US-10-216-484-41
US-10-384-933-41
US-10-354-240-77
US-10-554-240-76
US-10-354-240-76
US-10-363-941-7
US-09-998-279-18
US-09-998-279-18
US-09-998-279-21
                                                                                                                                                                                                                                                                                                                                                                            Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                     1714042 segs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                              OM protein - protein search, using sw model
                                                                                                                                                                                                                      105
1 SSGKNEGTNIYNNNEAFKVE 20
                                                                                                                                                                                                                                                                                                Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             44444444
                                                                                                                                                                                                 US-09-202-464-34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                     seq length: 0 seq length: 20
                                                                                                                                                                                                                                                                               BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     447.45
332.45.77
332.44.33
31.44.44.43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0
63.8
63.8
                                                                                                                                                                                                                      Perfect score:
                                                                                                                                                                                                                                                                               Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                79344666
73344666
                                                                                                                                                                                                                                                                                                                                                                                                                     Minimum DB
Maximum DB
                                                                                                                                                                                                                                          Sequence:
                                                                                                                                                                                                                                                                                                                                         Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Database
                                                                                                                     Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        è
S
```

Sequence 480, App Sequence 4, Appli Sequence 4, Appli Sequence 19, Appl Sequence 13, Appl			00000000	Sequence 1043, Ap Sequence 1046, Ap Sequence 1072, Ap Sequence 220, App Sequence 8, Appli Sequence 8, Appli Sequence 8, Appli Sequence 10, Appli
5	0 US-09-954-385-16 7 US-10-912-512-16 7 US-10-215-043-16 7 US-10-715-810-21 7 US-10-715-810-36	US-10-226-007-10 US-10-469-145-9 US-10-226-007-10 US-10-226-007-10 US-10-226-007-10 US-10-226-007-10	4 US-10-226- 4 US-10-226- 4 US-10-226- 4 US-10-226- 4 US-10-268- 4 US-10-268- 4 US-10-268- 4 US-10-268-	14 US-10-226-007-1033 14 US-10-226-007-1046 14 US-10-226-007-1059 14 US-10-226-007-1072 15 US-10-418-192-220 15 US-10-608-626-8 16 US-10-619-310-8 17 US-10-823-253-10
115 115 171 19	777777	554445	110 110 110 110	71 71 71 71 71 71 71
000000	8888888	200000000000000000000000000000000000000	200000000000000000000000000000000000000	29 27.6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
12 13 15 16	222 222 232 232 232 232 232 232 232 232	14266 4566	. W W W W W W W W W W W W W W W W W W W	, , , , , , , , , , , , , , , , , , ,

ALIGNMENTS

```
Sequence 12, Application US/10354240

Sequence 12, Application US/10354240

Sequence 12, Application US/10354240

Sequence 12, Application World Sequence 12, Application World Sequence 12, Application World Sequence 13, Application World Sequence 14, Action Sequence 14, Action Sequence 14, Mana, Action Mana, Action Applicant: Wana, Action Monager 108/10/354, 240

TILE REFERENCE: SPO-103D1

CURRENT FAPLICATION NUMBER: US/10/354, 240

CURRENT FILING DATE: 2003-01-29

PRIOR APPLICATION NUMBER: PCT/JP97/00740

PRIOR PILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 12

LENGTH: 20

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IndelB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ch 100.0%; Score 105; DB 14; 1 Similarity 100.0%; Pred. No. 3.7e-09; 20; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 SSGKNEGTNIYNNNEAFKVE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 20; Conservat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-354-240-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
```

1 SSGKNEGTNIYNNNEAFKVE 20

셤

Appl Appl Appl

Sequence

```
Kume, Akinori
Dairiki, Kazu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity
Matches 10; Conserva
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-354-240-77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 3
US-10-384-933-41

Sequence 41, Application US/10384933

Publication No. US20030170817A1

GENERAL INFORMATION:

APPLICANT: Serizawa, No. US20030170817A1ufusa

APPLICANT: Haruyama, Hideyuki

APPLICANT: Tarahashi, Toko

APPLICANT: Tarahashi, Toko

TITLE OF INVENTION: Anti-Fas Antibodies

TITLE OF INVENTION: Anti-Fas Antibodies

CURRENT PILING DATE: 2003-02-05

PRIOR APPLICATION NUMBER: US/10/384,933

CURRENT PILING DATE: 2000-02-05

PRIOR APPLICATION NUMBER: US/09/499,662

PRIOR APPLICATION NUMBER: US/09/499,662

PRIOR APPLICATION NUMBER: US/09/499,662

PRIOR SPELING DATE: EARLIER FILING DATE: 1998-04-01

NUMBER OF SEQ ID NOS: 165

LENGHH: 20

"LENGHH: 20

"TOTAL OF THE OF 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 63.8%; Score 67; DB 14; Length 20; Best Local Similarity 70.0%; Pred. No. 0.0025; Matches 14; Conservative 0; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 63.8%; Score 67; DB 14; Length 20; Best Local Similarity 70.0%; Pred. No. 0.0025; Matches 14; Conservative 0; Mismatches 6: Indels
                                                                                      Sequence 41, Application US/10216484

Publication No. US20030103976A1

GENERAL INFORMATION:

APPLICANT: Berizawa, No. US20030103976A1ufusa

APPLICANT: Barayama, Hideyuki

APPLICANT: Tamaki, Ikuko

APPLICANT: Tamaki, Ikuko

APPLICANT: Tawahai, Tohru

TITLE OF INVENTION: Anti-Fas Antibodies

FILE REPERENCE: 980126C1PHG

CURRENT APPLICATION NUMBER: US/10/216,484

CURRENT FILING DATE: 2002-08-09

PRIOR APPLICATION NUMBER: US/09/499,662

PRIOR PRILING DATE: 2000-02-09

PRIOR PRILING DATE: 1998-04-01

NUMBER OF SEQ ID NOS: 165

SEQ ID NO 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 SSGKNEGTNIYNNNEAFKVE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 SSGKYEGGNIYTKKEAFNVE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 SSGKYEGGNIYTKKEAFNVE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 SSGKNEGINIYNNNEAFKVE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
CORGANISM: Homo sapiens
US-10-216-484-41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: Homo sapiens
                            RESULT 2
US-10-216-484-41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-384-933-41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
```

; Sequence 78, Application US/10354240; Publication No. US20030185847A1

RESULT 4 US-10-354-240-78

```
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Xino, Kohauke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseas
FILE REFERENCE: SPO-10310
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT PILING DATE: 2003-01-29
PRIOR PILING DATE: 1997-03-10
PRIOR PILING DATE: 1997-03-10
PRIOR PILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SSO ID NO 78
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Kime, Adinori
APPLICANT: Kime, Adinori
APPLICANT: Califori
APPLICANT: Califori
APPLICANT: Lama, Akino,
APPLICANT: Adino,
APPLICANT: Mino,
APPLICANT: Mino,
APPLICANT: SPO-1030
CURRENT APPLICANTION NUMBER: US/10/354,240
CURRENT APPLICANTION NUMBER: PCT/J097/00740
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09-09
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 77
LENGTH: 15
TYPE: PRT
ORGANISM: CTyptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            45.7%; Score 48; DB 14; Length 15; 66.7%; Pred. No. 1.5; tive 0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            47.6%; Score 50; DB 14; Length 15; 66.7%; Pred. No. 0.74; tive 0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                ; LOCATION: (1). 7(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 64
US-10-354-240-78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; LOCATION: (1). (15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 63
US-10-354-240-77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 77, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION: APPLICANT: Sone, Toshio
                                                                                                                                                                                                                                                                                                                           LENGTH: 15
TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6 EGTNIYNNNEAFKVE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 EGGNIYTKKEAFNVE 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 SSGKNEGINIYNNNE 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 SSGKYEGGNIYTKKE 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 66.7
Matches 10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
```

```
APPLICANT: XIE, YI
TITLE OF INVENTION: HUMAN HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN 32.01 AND POLYNUCLES
TITLE OF INVENTION: HENCODING THE SAME
FILLS OF INVENTION: HENCODING THE SAME
FILLS ERFERENCE: 011241.52201US
CURRENT APPLICATION NUMBER: US/10/363,941
CURRENT APPLICATION NUMBER: US/10/363,941
PRIOR PILING DATE: 2003-03-07
PRIOR PILING DATE: 2000-03-09
PRIOR PILING DATE: 2000-10-07
NUMBER OF SEQ ID NOS: 9
SOFTWARE: Patentin version 3.1
SEQ ID NO 7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           °
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                               ; OTHER INFORMATION: partial sequence of SEQ ID NO: 2 US-10-363-941-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Landry, Donald W
TITLE OF INVENTION: ANTI-COCAINE CATALYTIC ANTIBODY
FILE REFERENCE: 0575/51400-B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 32.4%; Score 34; DB 15; Best Local Similarity 35.7%; Pred. No. 2.1e+02; Matches 5; Conservative 5; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      31.4%; Score 33; DB 10;
ilarity 40.0%; Pred. No. 3.3e+02;
Conservative 3; Mismatches 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: BURGESS, NICOLA A.
APPLICANT: GARCIA, MIGUES M.
APPLICANT: RIRKE, DAVID F.
APPLICANT: MIRERS, NICHOLAS L.
APPLICANT: MILLIAMS, PAUL.
TITLE OF INVENTION: ginS
FILE REFERENCE: GMS0081
CURRENT APPLICATION NUMBER: US/09/998,279
CURRENT FILING DATE: 2001-11-30
PRIOR FILING DATE: 2001-11-30
PRIOR FILING DATE: 2001-11-30
NUMBER OF SEQ ID NOS: 26
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 18
LENGTH: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-940-727B-68
; Sequence 68, Application US/09940727B
; Publication No. US20030077793A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 18, Application US/09998279
Publication No. US20030083287A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Prophyromonas gingivalis US-09-998-279-18
Publication No. US20040038248A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4 KNEGTNIYNNNEAFK 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 RNOEINVYNTAEYAK 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 SGKNEGINIYNNNE 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JS-09-998-279-18
                                                                                                                                                                                                                                                                                                                                                          LENGTH: 15
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                          APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Imama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 1997-03-10
PRIOR APPLICATION NUMBER: US 09/142,524
PRIOR APPLICATION NUMBER: US 09/142,524
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin Version 3.1
SEQ ID NOS: 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 36; DB 14; Length 15;
Pred. No. 1e+02;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   32.4%; Score 34; DB 16; Length 8; 83.3%; Pred. No. 1.6e+06; tive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; NAME/KEY: MISC_FEATURE
; LOCATION: (1)...(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 62
US-10-354-240-76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-719-642-43
Sequence 43, Application US/10719642
Publication No USZ0040185040A1
GENERAL INFORMATION:
APPLICANT: Garcia-Martinez, Leon Fernando
APPLICANT: Chen, Yuching
APPLICANT: Andrews, Dawn
TILLE OF INVENTION: Modulating Immune Responses
FILLE OF INVENTION: Modulating Immune Responses
CURRENT APPLICATION NUMBER: US/10/719,642
CURRENT FILIS TERREBUCE: 1427.0080181
CURRENT FILING DATE: 2003-11-21
NUMBER: FRSEIGO ID NOS: 99
SOSTWARE: FRSEIGO FOR WINDOWS VERSION 4.0
                                           US-10-354-240-76
. Sequence 76. Application US/10354240
. Publication No. US20030185847A1
. GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-363-941-7 . Sequence 7, Application US/10363941
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT ORGANISM: Oryctolagus cuniculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 80.0%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 32.4
Best Local Similarity 83.3
Matches 5, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 SSGKNEGTNI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SSGKYEGGNI 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9 NIYNNN 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |:||||
2 NVYNNN 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-719-642-43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 43
LENGTH: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 4. Application US/10928020
; Publication No. US20050118685A1
; GENERAL INFORMATION:
    TITLE OF INVENTION:
    TITLE OF INVENTION: Microorganism
; TITLE OF INVENTION: Microorganism
; FILE REPERENCE: GG636-2
; CURRENT APPLICATION NUMBER: US/10/928,020
; CURRENT PILING DATE: 2004-08-26
; PRIOR APPLICATION NUMBER: US 60/239,531
; PRIOR FILING DATE: 2000-10-10
; SOFTWARE PRESEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 15
                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-975-132A-4

Sequence 4, Application US/09975132A

Sequence 4, Application US/09975132A

Publication No. US20020182672A1

GENERAL INFORMATION:
TITLE OF INVENTION: Enhanced Secretion of a Polypeptide by a TITLE OF INVENTION: Microorganism

FILE REFERENCE: GC636-2

CURRENT APPLICATION NUMBER: US/09/975,132A

CURRENT FILING DATE: 2000-10-09

PRIOR FILING DATE: 2000-10-10
                                                                                                                                                                                                            Score 32; DB 16; Length 17;
Pred. No. 5e+02;
2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
30.0%; Score 31.5; DB 9;
Best Local Similarity 47.1%; Pred. No. 5.1e+02;
Matches 8; Conservative 2; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 30
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ), OTHER INFORMATION: synthetic peptide tag
US-09-975-132A-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; OTHER INFORMATION: synthetic peptide tag
US-10-928-020-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2 SGKNEGTNIYNNNEAFK 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         :|| || :| | | |
1 AGK---TNSFNQNVALK 14
    PRIOR FILING DATE: 2001-12-21
NUMBER OF SEQ ID NOS: 1139
SOFTWARE: Patentin version 3.0
SEQ ID NO 480
LENGTH: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                   Query Match 30.5%;
Best Local Similarity 62.5%;
Matches 5; Conservative
                                                                                                                        ; TYPE: PRT
; ORGANISM: canis familiaris;
US-10-327-598-480
                                                                                                                                                                                                                                                                                                                                         : :|||||
3 RGDGTNIY 10
                                                                                                                                                                                                                                                                                                                 4 KNEGTNIY 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-928-020-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 14
                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 480, Application US/10327598
Publication No. US20040181039A1
GENERAL INFORMATION:
APPLICANT: Krah, Eugene
APPLICANT: Guo, Honliang
APPLICANT: Guo, Honliang
APPLICANT: Lawton, Robert
TITLE OF INVENTION: Canine Immunoglobulin Variable Domains, Caninized Antibodies, and
TITLE OF INVENTION: for Making and Using Them
FILE REFERENCE: 01-799-A
CURRENT FELING DATE: 2002-12-20
                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                Query Match 31.4%; Score 33; DB 10; Length 17; Best Local Similarity 43.8%; Pred. No. 3.5e+02; Matches 7; Conservative 1; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31.4%; Score 33; DB 10; Length 19; 40.0%; Pred. No. 4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6; Indels
CURRENT APPLICATION NUMBER: US/09/940,727B
CURRENT FILING DATE: 2002-09-04
PRIOR APPLICATION NUMBER: 09/214,095
PRIOR FILING DATE: 1998-12-28
PRIOR FILING DATE: 1998-12-28
PRIOR FILING DATE: 1997-06-25
PRIOR FILING DATE: 1997-06-25
PRIOR FILING DATE: 1996-06-25
NUMBER OF SEQ ID NOS: 121
SOFTWARE: Patentin version 3.1
SOFTWARE: Patentin version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 11
US-09-998-279-21
Sequence 21, Application US/0998279
Sequence 21, Application US/0998279
Publication No. US20030083287A1
GENERAL INFORMATION:
APPLICANT: BURGESS, NICOLA A.
APPLICANT: GARCIA, MIGUES M.
APPLICANT: KIRKE, DAVID F.
APPLICANT: WILLIAMS, PAUL.
TITLE OF INVENTION: GinS
FILE REFERENCE: GRS0081
CURRENT APPLICATION NUMBER: US/09/998,279
CURRENT FILING DATE: 2001-11-30
PRIOR PULING DATE: 2001-11-30
PRIOR FILING DATE: 2000-11-30
NUMBER OF SEQ ID NOS: 26
SOFTWARE: FRREECO FOR WINDOWS VERSION 4.0
SEQ ID NO 21
LENGTH: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: US 60/344,874
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Porphyromonas gingivalis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3 GKNEGTNIYNNNEAFK 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 GMNPGNGVTYFNEKFK 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4 KNEGTNIYNNNEAFK 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                :|: |:|| | |
RNQEINVYNTAEYAK 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity
                                                                                                                                                                                                                                                                                                          ORGANISM: mouse
US-09-940-727B-68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 12
US-10-327-598-480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-998-279-21
```

셤

Query Match Matches

ઠે

```
RESULT 15
US-10-354-240-79
Sequence 79, Application US/10354240
| Publication No. US2003018847A1
| Publication No. US2003018847A1
| GENERAL INFORMATION:
| APPLICANT: Sone, Toshio
| APPLICANT: Kume, Akino
| APPLICANT: Dairki, Kazuo
| APPLICANT: Dairki, Macuo
| FILE REFERENCE: SPO-103D1
| CURRENT FILING DATE: 2003-01-29
| PRIOR FILING DATE: 1998-03-09
| PRIOR FILING DATE: 1998-09-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .;
0
                                                                          э;
с
Query Match 30.0%; Score 31.5; DB 17; Length 15; Best Local Similarity 47.1%; Pred. No. 5.1e+02; Matches 8; Conservative 2; Mismatches 4; Indels 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match. 29.5%; Score 31; DB 14; Length 15; Best Local Similarity 60.0%; Pred. No. 6.1e+02; Matches 6; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; NAME/KEY: MISC_FEATURE
; LOCATION: (1)...(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 65
US-10-354-240-79
                                                                                                                                          2 SCKNEGTNIYNNNEAFK 18
                                                                                                                                                                                 TYPE: PRT
ORGANISM: Cryptomeria japonica
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11 YNNNEAFKVE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
```

Search completed: June 20, 2005, 16:29:58 Job time : 73.4 secs

THIS PAGE BLANK (USPTU)

```
Sequence 57, Appl
Sequence 78, Appl
Sequence 76, Appl
Sequence 76, Appl
Sequence 68, Appl
Sequence 68, Appl
Sequence 68, Appl
Sequence 16, Appl
Sequence 16, Appl
Sequence 16, Appl
Sequence 16, Appl
Sequence 127, Appl
Sequence 51, Appl
Sequence 61, Appl
Sequence 61, Appl
Sequence 61, Appl
Sequence 61, Appl
Sequence 70, Appl
Sequence 70, Appl
                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                               June 20, 2005, 14:22:28; Search time 21.6 Seconds (without alignments) 69:120 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 12,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 7
Sequence 5
Sequence 5
Sequence 5
Sequence 5
Sequence 8
Sequence 8
Sequence 2
Sequence 3
Sequence 3
                                                                                                                                                                                                                                                                                                                Issued Patents AA:*

(cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
(cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
(cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
(cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Total number of hits satisfying chosen parameters:
                                                                                                                                                                                        513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                    Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                           OM protein - protein search, using sw model
                                                                                                                                                       BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                     105
1 SSGKNEGTNIYNNNEAFKVE
                                                                                                          US-09-202-464-34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length
                                                                                                                                                                                                                                    seq length: 0 seq length: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                               %
Query
Match 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Title:
Perfect score:
                                                                                                                                                        Scoring table:
                                                                                                                                                                                                                                    Minimum DB
Maximum DB
                                                                                                                                  Sequence:
                                                                                                                                                                                        Searched:
                                                                                                                                                                                                                                                                                                                 Database
                                                                 Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Result
No.
```

Sequence 1211, Ap Sequence 31, Appl Sequence 19, Appl Sequence 19, Appl Sequence 51, Appl Sequence 41, Appl Sequence 41, Appl Sequence 78, Appl Sequence 78, Appl Sequence 78, Appl Sequence 2, Appl Sequence 2, Appl Sequence 14, Appl Sequence 14, Appl Sequence 14, Appl Sequence 15, Appl Sequence 15, Appl Sequence 52, Appl		gent for Treating Allergic Disea	Length 20; Indels 0; Gaps 0;	Peptides From
14 4 US-09-443-199C-1211 15 4 US-09-490-702B-31 18 3 US-08-929-702B-31 19 4 US-09-563-485-19 19 4 US-09-563-222C-51 15 3 US-09-45-612-100 17 3 US-09-43-122-41 17 4 US-09-434-122-41 18 4 US-09-908-322-78 13 4 US-09-908-322-78 14 6 5204097-4 14 6 5204097-4 17 3 US-07-987-264-2 17 3 US-07-987-264-2 18 1 US-08-413-694-1 20 3 US-08-413-694-1	ALIGNMENTS	ULT 1 '09-142-524D-12 'equence 12, Application US/09142524D 'attent No. 6719976 'sENERAL INFORMATION: APPLICANT: Sone, Toshio APPLICANT: Kume, Akinori APPLICANT: Mana, Akiko APPLICANT: Kino, Kohsuke TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent FILE REPERENCE: SPO-103 CURRENT APPLICATION NUMBER: US/09/142,524D CURRENT APPLICATION NUMBER: PCT/JP97/00740 PRIOR APPLICATION NUMBER: PCT/JP97/00740 PRIOR FILING DATE: 1997-03-10 NUMBER OF SEQ ID NOS: 174 SOFTWARE: PatentIn version 3.1 LENGTH: 20 LENGTH: 20 TYPE: PRI TYPE: PRI CRAMISE: CTYPLOMERIA japonica ONGANISE: CTYPLOMERIA japonica	100.0%; Score 105; DB 4; 100.0%; Pred. No. 3.8e-10; vative 0; Mismatches 0; IYNNNEAFKVE 20	3 Proteins And dar Pollen
28 28 26.7 29 28 26.7 30 28 26.7 31 28 26.7 33 27.5 26.2 34 27.5 26.2 36 27.5 26.2 36 27.5 26.2 37 27.5 26.2 38 27.5 26.2 38 27.5 26.2 38 27.5 26.2 39 27.5 26.2 40 27 25.7 41 27 25.7 44 27 25.7 45 27 25.7		RESULT 1 US-09-142-524D-12 ; Sequence 12, Application US/09142524D ; Patent No. 6719976 ; GENERAL INFORMATION: ; APPLICANT: Sone, Toshio ; APPLICANT: Wime, Akinori ; APPLICANT: Wame, Akinori ; APPLICANT: Wame, Akinori ; APPLICANT: Wame, Akinori ; APPLICANT: Wime, Kohsuke ; TITLE OF INVENTION: Peptide-Based Imm ; FILE REFERENCE: SPO-103 ; CURRENT FILING DATE: 1998-09-09 ; PRIOR PELICATION NUMBER: US/09/14; CURRENT APPLICATION NUMBER: DT/JP97/0 ; PRIOR PELING DATE: 1997-03-10 ; NUMBER OF SEQ ID NOS: 174 ; SEQ ID NO 12 ; LENGTH: 20 ; TYPE: PRI ; SCO 10 NO 12 ; CNRCANISM: Cryptomeria japonica US-09-142-524D-12	Query Match Best Local Similarity Matches 20; Conser Qy 1 SSGKNEGTN	RESULT 2 US-08-467-023-57 US-08-467-023-57 Sequence 57, Application US/0846702 Patent No. 6090386 GENERAL INFORMATION APPLICANT: Gollock, Joanne; APPLICANT: Bond, Julian F.; APPLICANT: Garman, Richard D; APPLICANT: Garman, Richard D; APPLICANT: Garman, Richard D; APPLICANT: Ealey, Mark A.; APPLICANT: Exley, Mark A.; APPLICANT: Exley, Mark A.; APPLICANT: Exley, Mark A.; TITLE OF INVENTION: Japanese Ce; TITLE OF INVENTION: Japanese Ce; NUMBER OF SEQUENCES: 261

```
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1996-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: PatentIn version 3.1
SEQ ID NO 76
LENGTH: 15
                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 45.7%; Score 48; DB 4; Length 15; Best Local Similarity 66.7%; Pred. No. 0.3; Matches 10; Conservative 0; Mismatches 5; Indels
                            Indels
                            5,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: MISC_FEATURE; LOCATION: (1)...(15); OTHER INFORMATION: Cryjl peptide, Figure 1, Row 63 US-09-142-524D-77
    66.7%; Pred. No. 0.14;
                         0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; COCATION: (1). (15)
; COTER INFORMATION: Cryjl peptide, Figure 1,
US-09-142-524D-76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 76, Application US/09142524D
Patent No. 6719976
GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
                                                                                                                                                                                                                         Sequence 77, Application US/09142524D Patent No. 6719976
GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Cryptomeria japonica
FEATURE:
NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                      6 EGTNIYNNNEAFKVE 20
                                                                                                             1 EGGNIYTKKEAFNVE 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 SSGKNEGTNIYNNE 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 SSGKYEGGNIYTKKE 15
  Best Local Similarity 66.7%
Matches 10; Conservative
                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Iwama, Akiko APPLICANT: Kino, Kohsuke
                                                                                                                                                                                                        US-09-142-524D-77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-142-524D-76
                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   원
                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Dairki, Kazuo
APPLICANT: Iwana, Akiko
APPLICANT: Iwana, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
CURRENT APPLICATION NUMBER: US/09/142,524D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           63.8%; Score 67; DB 3; Length 20; 70.0%; Pred. No. 0.0004; Live 0; Mismatches 6; Indels
                                                                                                                                                                                          COMPUTER: TAPLY ALSA
COMPUTER: TAPLY ALSA
COMPUTER: TAPLY ALSA
SOFTHARE: PALCATION DATA:
SOFTHARE: PALCATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: Unne 6, 1995
CLASSIFICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 30,872
TELECHONE: (6.77) 227-7400
TELECHONE: (6.77) 227-7401
TELEPAK: (6.77) 227-5941
INFORMATION FOR SEG ID NO: 57:
                         ImmuLogic Pharmaceutical Corporation, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 78
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 78, Application US/09142524D Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 SSGKNEGTNIYNNNEAFKVE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SSGKYEGGNIYTKKEAFNVE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Cryptomeria japonica
                                                                                                                                                                                   Floppy disk
                                          STREET: 610 Lincoln St
CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
CORRESPONDENCE ADDRESS:
                                                                                                                                                          COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             amino acid
                                                                                      STATE: MA
COUNTRY: US
ZIP: 02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 3
US-09-142-524D-78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-467-023-57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              임
```

47.6%; Score 50; DB 4; Length 15;

Query Match

ઠે

```
Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 33; DB 3; Length 17;
Pred. No. 81;
1; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 2; Length 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
             GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Landry Donald, W.

TITLE OF INVENTION:

CORRESPONDENCE ADDRESS:

CORRESPONDENCE ADDRESS:

ADDRESSED:

ADDRESSED:

ADDRESSED:

ATTHER OF STORMAN ILP

STREET: 1185 Avenue of the Americas

CITY: New York

CITY: New York

COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 8
US-09-214-095D-68
is Sequence 68, Application US/09214095D
is Patent No. 6280987
is CENERAL INFORMATION:
is APPLICANT: Landry, Donald
is TITLE OF INVENTION: ANTICOCAINE CATALYTIC ANTIBODY
is TITLE OF INVENTION NUMBER: US/09/214,095D
is CURRENT FILING DATE: 1999-07-19
is NUMBER OF SEQ ID NOS: 121
is SOFTWARE: Patentin version 3.0
is SEQ ID NO 68
is LENGRIA.17
is TYPE: BRT
is ORGANISM: Muxinae gen. 8p.
US-09-214-095D-68
                                                                                                                                                                                              COUNTRY:

ZIP: 10036

ZIP: 10036

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Patentin Release #1.0, Version #1.30

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/672,345C
FILING DATE: 24-UTW-1996
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 0575/51400
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECHONE: 212-279-0400

"WILEFAX: 212-391-0525
"TELEPHONE: 212-391-0525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pred. No. 81;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31.4%; Score 33; 43.8%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3 GKNEGTNIYNNNEAFK 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3 GKNEGTNIYNNNEAFK 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 GMNPGNGVTYFNEKFK 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             31.4%;
ilarity 43.8%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 GMNPGNGVTYFNEKFK 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INPORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 43.8
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 7; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acid
STRANDEDNESS: si
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-672-345C-68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                         Gaps
                                                         ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Allergenic Proteins And Peptides From
Japanese Cedar Pollen
               Score 36; DB 4; Length 15;
Pred. No. 24;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 36; DB 3; Length 20;
Pred. No. 33;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: Allergenic Proteins And Peptides Fr
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS: 261
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION DATA:

SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECHOME: (617) 227-7400
TELECHOME: (617) 227-5941
INFORMATION FOR SEQ ID NO. 56:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; Sequence 68, Application US/08672345C
                                                                                                                                                                                                                          ; Sequence 56, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
APPLICANT: Pollock, Joanne;
                                                                                                                                                                                                                                                                                  Griffeth, Irwin J.;
Pollock, Joanne;
Bond, Julian F.;
Garman, Richard D;
Kuo, Mei-Chang;
Yeung, Siu-mei H.;
Brauer, Andrew;
Exley, Mark A.;
Powers, Steven P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      34.3%;
                   34.3%;
80.0%;
Ouery Match
Best Local Similarity 80.0
Local 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 80.v
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            peptide
internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 SSGKNEGTNI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11 SSGKYEGGNI 20
                                                                                               1 SSGKNEGTNI 10
                                                                                                                                 SSGKYEGGNI 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE:
FRAGMENT TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY: US
ZIP: 02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-672-345C-68
                                                                                                                                                                                          RESULT 6
US-08-467-023-56
                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
```

ö

ö

쉱 ઠે

```
5 NEGTNI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6 NEGTNV 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-475-985-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                               ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ij
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ï
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 31.5; DB 6; Length 20;
Pred. No. 1.7e+02;
4; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                    Query Match 30.0%; Score 31.5; DB 6; Length 20; Best Local Similarity 44.4%; Pred. No. 1.7e+02; Matches 8; Conservative 4; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 11
US-08-475-889-16
i Sequence 16. Application US/08475989
i Patent No. 5679352
j GENERAL INFORMATION:
APPLICANT: CHONG, Pele
APPLICANT: KANDIL, Ali
APPLICANT: KANDIL, Ali
APPLICANT: KLEIN, Michel
ITLE OF INVENTION: Synthetic Haemophilus Influenzae
ITLE OF INVENTION: Conjugate Vaccine
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
RESULT 9
5204097-3
;Patent No. 5204097
;Patent No. 5204097
;PAPLICANT: ARTHUR
;DONOHUE-ROLFE, ARTHUR
;TITLE OF INVENTION: SHIGA TOXIN B CHAIN POLYPEPTIDES AND ;VACCINE THERETO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Fatent No. 5204097

APPLICANT: ARNON, RUTH, HARARI, ILANA, KEUSCH, GERALD T.

DONOHUB-ROLFE, ARTHUR

TITLE OF INVENTION: SHIGA TOXIN B CHAIN POLYPEPTIDES AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3: Sim & McBurney
Suite 701, 330 University Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VACCINE THERETO

VUMBER OF SEQUENCES: 5

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/364,506

FILING DATE: 09-JUN-1989

RIPPLICATION DATA:

APPLICATION NUMBER: 70,243

FILING DATE: 06-JUL-1987
                                                                                                                                       NUMBER OF SEQUENCES: 5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/364,506
FILING DATE: 09-UNN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 70,243
FILING DATE: 06-UUL-1987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 GKVEYTK-YNDDDTFTVK 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                     3 GKNEGTNIYNNNEAFKVE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3 GKNEGTNIYNNNEAFKVE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 GKVEYTK-YNDDDTFTVK 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 30.0%;
Best Local Similarity 44.4%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STATE: Ontario
COUNTRY: Canada
ZIP: M5G 1R7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDAL.
STREET: Surray; Toronto
                                                                                                                                                                                                                                                                                                         LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO:3
                                                                                                                                                                                                                                                                                       SEQ ID NO:3
                                                                                                                                                                                                                                                                                                                              5204097-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5204097-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5204097-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
```

```
WORPTING READABLE PROMISED TO COMPATING STREET IN PROCESSIONS AND COMPATING SYSTEM: TO COMPATING SYSTEM: PC-DOS/NS-DOS COMPATING NOMES: US O/256,839
PULING NOME: 0.3-PEB-1933
PULING NOME: 0.3-PEB-1933
PULING NOMES: 0.3-PEB-1
```

ö

ö

Gaps ö

```
GENERAL INFORMATION:
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
APPLICANT: Now NUMBER: US/09/142,524D
CURRENT APPLICATION NUMBER: US/09/142,524D
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 79
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: COMB, DONALD G.
APPLICANT: PERLER, FRANCINE B.
APPLICANT: PACK, WILLIAM E.
APPLICANT: JACK, WILLIAM E.
APPLICANT: WING-QUN
APPLICANT: HODGES, ROBERT A.
APPLICANT: HOREN, CHRISTOPHER J.
APPLICANT: GHONG, SHARONG S.C.
APPLICANT: SOUTHWORTH, MAURICE
APPLICANT: SOUTHWORTH, MAURICE
TITLE OF INVENTION: MODIFIED PROTEINS, METHODS FOR PURIFICATION OF TARGET
TITLE OF INVENTION: PRODUCTION AND METHODS FOR PURIFICATION OF TARGET
TITLE OF INVENTION: PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES: 155
CORRESPONDENCE ADDRESS:
CARRESPONDENCE GREGORY D. WILLIAMS; NEW ENGLAND BIOLABS, INC.
STREET: 32 TOZER RAOD
                                                                                                                                                                                   Length 14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 31; DB 4; Length 15;
Pred. No. 1.5e+02;
0; Mismatches 4; Indels
                                                                                                                                                                                Score 31; DB 3; Length 14;
Pred. No. 1.4e+02;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Cryptomeria japonica
FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (1)...(15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 65
US-09-142-524D-79
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 79, Application US/09142524D Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             . Sequence 127, Application US/08811492 ; Patent No. 5834247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 29.5%;
Best Local Similarity 60.0%;
Matches 6; Conservative
                                                                                                                                                                                Query Match 29.5%;
Best Local Similarity 83.3%;
Matches 5; Conservative
                                     LENGTH: 14 amino acids
                                                            TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11 YNNNEAFKVE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 YTKKEAFNVE 10
                                                                                                                                                                                                                                                                                   5 NEGTNI 10
                                                                                                                                                                                                                                                                                                                              6 NEGTNV 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                JS-09-142-524D-79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-08-811-492-127
                                                                                                                                   US-08-256-839-16
                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 31; DB 2; Lengtn 13,
Pred. No. 1.46+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 16, Application US/08256839
Fatent No. 6018019
GENERAL INFORMATION:
APPLICANT: KANDIL, Ali
APPLICANT: KANDIL, Ali
APPLICANT: SIA, Charles
APPLICANT: KLEIN, Michel
TITLE OF INVENTION: Synthetic Haemophilus Influenzae
TITLE OF INVENTION: Conjugate Vaccine
TITLE OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sim & MCBURNEY
STREET: Suite 701, 330 University Avenue
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/256,839
FILING DATE: 03-FEB-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/CA93/00041
FILING DATE: 03-FEB-1993
CLASSIFICATION NUMBER: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9202219.3
FILING DATE: 03-FEB-1992
CLASSIFICATION DATA:
APPLICATION NUMBER: GB 9202219.3
FILING DATE: 03-FEB-1992
CLASSIFICATION NUMBER: 1038-506 MIS:vg
FILING DATE: 03-FEB-1992
TELEPHONE: (416) 595-1155
TELEPHONE: (416) 595-1155
TELEPHONE: (416) 595-1155
TELEPHONE: (416) 595-1163
INPORMATION POR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: A amino acide
TVEE: Annar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/256,839
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE:
ATCORNEY/AGENTINFORMATION:
NAME: STEWART, MICHAEL I.
REGISTRATION WUMBER: 24,973
REGISTRATION WUMBER: 24,973
REFERENCE/DOCKET NUMBER: 1038-373 MIS:jb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEPHONE: (416) 595-1155
TELEPAX: (416) 595-1163
INFORMATION FOR SEO ID NO: 16
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 83.3
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CITY: Toronto
STATE: Ontario
COUNTRY: Canada
ZIP: MSG 1R7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5 NEGTNI 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6 NEGTNV 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 13
US-08-256-839-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
```

ö

Gaps

ö

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 29.5%; Score 31; DB 2; Length 19; Best Local Similarity 46.2%; Pred. No. 1.9e+02; Matches 6; Conservative 3; Mismatches 4; Indels
CITY: BEVERLY
STATE: MASSACHUSETTS
COUNTRY: USA
ZIP: 01915
COMPUTER READABLE FORM:
MEDIUM TYRE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC DOS/MS\_DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/811,492
FILING DATE: 29-DEC-1995
CLASSIFICATION: 435
RIOR APPLICATION NUMBER: US 08/580,555
FILING DATE: 29-DEC-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/496,247
FILING DATE: 03-DEC-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/496,247
FILING DATE: 03-NOV-1993
CLASSIFICATION: 435
PRIOR APPLICATION: A35
PRIOR APPLICATION: A35
FILING DATE: 03-NOV-1993
CLASSIFICATION: A35
FILING DATE: 03-NOV-1993
CLASSIFICATION: A35
APPLICATION NUMBER: US 08/004,139
FILING DATE: 09-DEC-1992
CLASSIFICATION: A35
ATTORNEY/AGENT INFORMATION:
NAME: Williams, Gregory D
REFIRENCE/DOCKET NUMBER: NEB-036C4
TELEPHONE: 508-927-1705
TELEPHONE: 508-927-1705
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; INFORMATION FOR SEQ ID NO: 127:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; MOLECULE TYPE: peptide
US-08-811-492-127
```

2 SGKNEGTNIYNNN 14 :|:| | | |: 6 NGRNGGNNGGNND 18 g ð

Search completed: June 20, 2005, 16:00:54 Job time: 22.6 secs

us-09-202-464-35.rapb

```
June 20, 2005, 15:55:27 ; Search time 72.4 Seconds (without alignments) 106.072 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/USO7_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/PCT_REW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/PCT_REW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/USO6_NEW_PUB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/USO6_NEW_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/USO8_NEW_PUB.pep:*
7/cgn2_6/ptodata/2/pubpaa/USO8_NEW_PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/USO9_NEW_PUB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/USO9_NEW_PUB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/USO9_NEW_PUB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/USO0_NEW_PUB.pep:*
20: /cgn2_6/ptodata/2/pubpaa/USO0_NEW_PUB.pep:*
21: /cgn2_6/ptodata/2/pubpaa/USO0_NEW_PUB.pep:*
22: /cgn2_6/ptodata/2/pubpaa/USO0_NEW_PUB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                332641
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1714042 seqs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                              OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                      104
1 YNNNEAFKVENGSAAPQLTK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                     US-09-202-464-35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                                                   Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Database :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Searched:
                                                                                                                                                                                                                                                                                                                                                                                        Sequence:
                                                                                                                                                                                             Run on:
                                                                                                                                                                                                                                                                                                                        Title:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Description	Sequence 80, Appl Sequence 12, Appl Sequence 79, Appl Sequence 31, Appl Sequence 31, Appl Sequence 31, Appl Sequence 15, Appl Sequence 78, Appl Sequence 78, Appl Sequence 78, Appl Sequence 41, Appl
SUMMARIES	US-10-354-240-80 US-10-354-240-12 US-10-354-240-81 US-10-354-240-81 US-09-76-460-31 US-10-777-829-31 US-10-777-829-31 US-10-449-829A-15 US-10-354-240-78 US-10-354-240-78 US-10-354-240-78
Щ	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
* Query Match Length DB	15 15 15 15 16 16 17 18
& Query Match	0.01444 0.01444 0.0144
Score	
Result No.	12 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

Sequence 16, Appl Sequence 17, Appl Sequence 71, Appl Sequence 31, Appl Sequence 62, Appl Sequence 208, Appl	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Sequence 392, App Sequence 75, App Sequence 75, Appl Sequence 77, Appl Sequence 78, Appl Sequence 79, Appl Sequence 251, Appl Sequence 252, Appl	75, 75, 75, 75, 75, 75, 75, 75, 75, 75,
US-10-2 US-10-1 US-10-7 US-10-8 US-10-8	US-10-203-969A-20 US-10-203-969A-21 US-10-203-969A-21 US-10-203-969A-39 US-10-203-969A-39	0.05-10-203-994-392 0.05-10-203-969A-393 0.05-10-642-553-76 0.05-10-642-553-76 0.05-10-642-553-78 0.05-10-642-553-78 0.05-10-642-553-78 0.05-10-642-553-78 0.05-10-642-553-78	10-789-52-53-52 10-789-619-5 10-481-180-79 10-481-180-79 10-925-556-12 10-925-556-12 10-481-180-82 10-481-180-82 10-769-514-19 10-221-125-30
нанана		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	220 166 17 166 17 17 17 17 17 17 17 17 17 17 17 17 17
12 30 28.8 13 30 28.8 14 30 28.8 15 30 28.8 16 30 28.8	222222222222222222222222222222222222222	6 6 5 5 7.7. 7 7 29 27. 8 8 29 27. 9 8 29 27. 1 29 27. 2 9 27.	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

ALIGNMENTS

JS-10-354-240-80

```
GENERAL INCRMANTION:

JUNCANT: SOME, Akinori

APPLICANT: Some, Akinori

APPLICANT: Dairiki, Kazuo

CURRENT: SPO-10301

CURRENT PILING DATE: 2003-01-29

PRIOR FILING DATE: 1998-09-09

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: Patentin version 3.1

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 59.6%; Score 62; DB 14; Length 15; Best Local Similarity 80.0%; Pred. No. 0.0024; Matches 12; Conservative 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCATION: (1).7(15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 66
Sequence 80, Application US/10354240 Publication No. US20030185847A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-354-240-80
```

ö

Gaps

ö

```
APPLICANT: Sone, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Nama, Akiko
APPLICANT: Kime, Akiko
APPLICANT: Kimo, Kohsuke
TILIGO F INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
FILE REPRENCE: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT APPLICATION NUMBER: US/10/354,240
PRIOR APPLICATION NUMBER: US/10/354,240
PRIOR PILING DATE: 1997-03-10
PRIOR PELING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09
NUMBER OF SEQ ID NOS: 174
SEQ ID NOS: 174
SEQ ID NO 81
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Mandell, Arnold
APPLICANT: Mandell, Arnold
APPLICANT: Selz, Karen
APPLICANT: Selz, Karen
APPLICANT: Shesinger, Michael
APPLICANTON: Punctions of Receptors and/or Other Proteins
CURRENT APPLICATION NUMBER: US/09/767,460
CURRENT FILING DATE: 2001-01-23
NUMBER OF SEQ ID NOS: 96
SEQ ID NO 31
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 43; DB 14; Length 15; Pred. No. 3.7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 34; DB 9; Length 15;
Pred. No. 1.2e+02;
2; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: MISC_FEATURE
CCATION: (1)...(15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 67
US-10-354-40-81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1; Mismatches
                                                                                                                                                                                        Sequence 81, Application US/10354240
Publication No. US20030185847A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     . Sequence 31, Application US/09767460
; Patent No. US20020009756A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Cryptomeria japonica
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          41.3%;
80.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        32.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; OTHER INFORMATION: Synthetic US-09-767-460-31
                                                     1 YTKKEAFNVENGNA 14
                          1 YNNNEAFKVENGSA 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 50.03
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 YNNNEAFKVENG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ||:| ||||
1 NGNATPQLTK 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11 NGSAAPQLTK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                    US-10-354-240-81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-767-460-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                          ò
                                                                  요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                               WS-10-354-240-12

Sequence 12, Application US/10354240

Sequence 12, Application US/10354240

GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko

APPLICANT: Dairiki, Kazuo
APPLICANT: Nama, Akiko

CURENT DAIVINION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

FILE REFERENCE: SPO-10301

CURRENT APPLICATION NUMBER: US/10/354,240

CURRENT APPLICATION NUMBER: PCT/JP97/00740

PRIOR APPLICATION NUMBER: PCT/JP97/00740

PRIOR APPLICATION NUMBER: PCT/JP97/00740

PRIOR PILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: Patentin Version 3.1

LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Dain'ki, Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT PRILING DATE: 1997-03-10
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SSOFTWARE: Patentin version 3.1
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 51.9%; Score 54; DB 14; Length 20; Best Local Similarity 100.0%; Pred. No. 0.074; Matches 10; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       46.2%; Score 48; DB 14; Length 15; 64.3%; Pred. No. 0.53; tive 1; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCATION: (1). 7(15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 79, Application US/10354240
Publication No. US20030185847A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; ORGANISM: Cryptomeria japonica
US-10-354-240-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Cryptomeria japonica
                          6 AFKVENGSAAPQLTK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 64.3
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11 YNNNEAFKVE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 YNNNEAFKVE 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 3
US-10-354-240-79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-354-240-79
                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            임
ð
```

```
APPLICANT: TERRETT, JONATHAN ALEXANDER PROBLICANT: TERRETT, JONATHAN ALEXANDER PROBLICANT: TERRETT, JONATHAN ALEXANDER PROBLICANT: TERRETT, JONATHAN ALEXANDER PROBLICANT: HALL, Ian Philip;

JILLE OF INVENTION: PROTEINS, GENES AND THEIR USE FOR DIAGNOSIS AND TREATMENT OF CHRON; TITLE OF INVENTION: ASTHUM PROBLES: 2543-1-029; CURRENT FILING DATE: 2003-05-30; PRIOR APPLICATION NUMBER: PCT/GB01/05476; PRIOR APPLICATION NUMBER: PCT/GB01/05476; PRIOR APPLICATION NUMBER: P22060GB; PRIOR FILING DATE: 2000-12-10; PRIOR PELING DATE: 2000-12-08; NUMBER OF SEQ ID NOS: 49; SEQ ID NO 15; LENGTH: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-354-240-78

US-10-354-240-78

US-10-354-240-78

Publication No. US20030185847A1

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Inwam, Akiko

APPLICANTON: PEDTICANTON NUMBER: US/10/354,240

CURRENT PILING DATE: 2003-01-29

PRIOR FILING DATE: 1997-03-10

PRIOR FILING DATE: 1998-09-09

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SEQ ID NO 78

LENGTH 115

LENGTH 115

LENGTH 115

LENGTH 115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 33; DB 15; Length 16; Pred. No. 1.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; LOCATION: (1). (15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 64
US-10-354-240-78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 31; DB 14;
Pred. No. 3.8e+02;
0; Mismatches 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Cryptomeria japonica
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
29.8%;
Best Local Similarity 60.0%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 45.5
Matches 5; Conservative
                                      2 YKHNEATDIEKG 13
     1 YNNNEAFKVENG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7 FKVENGSAAPO 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | : || ||:
1 FNISNGGPAPE 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 YNNNEAFKVE 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-449-829A-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                      ద
     ઠે
                                                                                                                                Sequence 31. Application US/1077829

| Sequence 31. Application US/1077829
| Publication No. US20050027457A1
| GENERAL INFORMATION:
| APPLICANT: MANDELL, ARNOLD J.
| APPLICANT: SELZ, KAREN A.
| APPLICANT: SELZ, KAREN A.
| TITLE OF INVENTION: ALGORITHMIC DESIGN OF PEPTIDES FOR BINDING AND/OR MODULATION OF TITLE OF INVENTION: ALGORITHMIC DESIGN OF RECEPTORS AND/OR OTHER PROTEINS
| TITLE OF INVENTION: THE FUNCTIONS OF RECEPTORS AND/OR OTHER PROTEINS
| TITLE OF INVENTION: THE FUNCTION OF RECEPTORS AND/OR OTHER PROTEINS
| TITLE OF INVENTION: THE FUNCTION NUMBER: US/10/777,829
| CURRENT FILLING DATE: 2004-02-11
| PRIOR APPLICATION NUMBER: 09/490,701
| PRIOR PILLING DATE: 2000-01-24
| PRIOR PILLING DATE: 2000-01-24
| NUMBER OF SEQ ID NOS: 99
| SOFTWARE: PATEUT IN VERSION 3.2
| SEQ ID NOS: 99
| SOFTWARE: PATEUT IN VERSION 3.2
| SEQ ID NOS: 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: SELS, KAREN A.
APPLICANT: SELS, KAREN A.
APPLICANT: SELS, KAREN A.
APPLICANT: SELS, MICHAEL F.
APPLICANT: SELS, MICHAEL F.
APPLICANT: SHESINGER, MICHAEL F.
TITLE OF INVENTION: THE FUNCTIONS OF RECEPTORS AND/OR OTHER PROTEINS
FILE REFERENCE: 31010-701.502
CURRENT APPLICATION NUMBER: 10/177,829
PRIOR FILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: 09/767,460
PRIOR APPLICATION NUMBER: 09/767,460
PRIOR APPLICATION NUMBER: 09/490,701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 34; DB 17; Length 15;
Pred. No. 1.2e+02;
2; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 32.7%; Score 34; DB 17; Length 15; Best Local Similarity 50.0%; Pred. No. 1.2e+02; Matches 6; Conservative 2; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             , OTHER INFORMATION: Synthetic peptide US-10-777-829-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; FEATURE:
; OTHER INFORMATION: Synthetic peptide
US-10-818-067-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Sequence 31, Application US/10818067; Publication No. US20050119454A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 50.0%;
Matches 6; Conservative
2 YKHNEATDIEKG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 YNNNEAFKVENG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 YKHNEATDIEKG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-818-067-31
                                                                                                                                  US-10-777-829-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 31
LENGTH: 15
                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ద
```

```
RESULT 14
US-10-769-514-71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-173-461-17
  US-10-227-616-16
                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-227-616-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ó;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 41, Application US/10384933
; Publication No. US20030170817A1
; GENERAL INFORMATION:
    APPLICANT: Serizawa, No. US20030170817A1ufusa
    APPLICANT: Haruyama, Hideyuki
    APPLICANT: Haruyama, Hideyuki
    APPLICANT: Takahabi, Tohru
    TITLE OF INVENTION: Anti-Fas Antibodies
    TITLE OF INVENTION: Anti-Fas Antibodies
    FILE REFERENCE: 18012GCIP/HG
    CURRENT APPLICATION NUMBER: US/10/384,933
    CURRENT FILING DATE: 2003-02-05
    PRIOR APPLICATION NUMBER: US/09/499,662
    PRIOR APPLICATION NUMBER: EMALIER APPLICATION NUMBER: US/09/499,662
    PRIOR FILING DATE: SALLIER FILING DATE: 1998-04-01
    NUMBER OF SEQ ID NOS: 165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29.8%; Score 31; DB 14; Length 20; 60.0%; Pred. No. 5.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           29.8%; Score 31; DB 14; Length 20; 60.0%; Pred. No. 5.3e+02; tive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4; Indels
                                                                                             VS-10-216-484-41

Sequence 41, Application US/10216484

Publication No. US20030103976A1

GENERAL INFORMATION:

APPLICANT: Haruyama, Hideyuki

APPLICANT: Haruyama, Hideyuki

APPLICANT: Tamaki, Ikuko

APPLICANT: Tohuu

CURRENT: TAPPLICATION NUMBER: US/10/216,484

CURRENT FILING DATE: 2002-08-09

PRIOR APPLICATION NUMBER: US/09/499,662

PRIOR APPLICATION NUMBER: US 09/053,583

PRIOR FILING DATE: 1998-04-01

SEQ ID NO 41

LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 YNNNEAFKVE 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11 YTKKEAFNVE 20
| ||||||
6 YTKKEAFNVE 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 YNNNEAFKVE 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11 YTKKEÁFNVÉ 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity
Matches 6, Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 11
US-10-384-933-41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-216-484-41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-384-933-41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 41
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                     요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
```

RESULT 12

```
MS-10-173-461-17

Sequence 17, Application US/10173461

Sequence 17, Application US/10173461

Sequence 17, Application No. US20030138795A1

GENERAL INFORMATION: VOLYNUCLEOTIDE ENCODING A NOVEL HUMAN GROWTH FACTOR WITH HOMOLOGY

TITLE OF INVENTION: EPIDERMAL GROWTH FACTOR, BGS-8, EXPRESSED HIGHLY IN IMMUNE TISSUI

CURRENT PILING DATE: 2002-06-14

CURRENT PILING DATE: 2001-06-14

NUMBER OF SEQ ID NOS: 69

SEQ ID NOS: 69

SOFTWARE: PATENTING DATE: 2001-06-14

NUMBER OF SEQ ID NOS: 69

SEQ ID NO 17

LENGTH: 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 71, Application US/10769514
; Publication No. US20040258695A1
; GENERAL INFORMATION:
APPLICANT: Schryvers, Anthony
TITLE OF INVENTION: Transferrin Binding Peptides and Uses Thereof
FILE REFERENCE: 028722-001
; CURRENT APPLICATION NUMBER: US/10/769,514
; CURRENT FILING DATE: 2004-01-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28.8%; Score 30; DB 14; Length 14; 85.7%; Pred. No. 5.1e+02; ive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 30; DB 14;
Pred. No. 4.3e+02;
2; Mismatches 3;
Sequence 16, Application US/10227616
Publication No. US20030099662A1
GERREAL INFORMATION:
APPLICANT: Boyd, Robert Simon
APPLICANT: Stamps, Alasdair Craig
APPLICANT: Terrett, Jonathan Alexander
ITILE OF INVENTION: Proteins
FILE REFERENCE: 2543-1-028
CURRENT APPLICATION UNDRER: US/10/227,616
CURRENT APPLICATION NUMBER: US/10/227,616
CURRENT PILING DATE: 2000-02-25
PRIOR APPLICATION NUMBER: GB 0031341.1
PRIOR PILING DATE: 2000-12-21
NUMBER OF SEQ ID NOS: 110
SOFTWARE: PatentIn version 3.0
SEQ ID NO 16
LENGTH: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT FILING DATE: 2004-01-30
PRIOR APPLICATION NUMBER: US 60/444,113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 28.8%;
Best Local Similarity 50.0%;
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 28.8
Best Local Similarity 85.7
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | |:|| :|
1 NGNQAFNEDN 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2 NNNEAFKVEN 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8 KVENGSA 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3 OVENGSA 9
```

```
1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 31, Application US/10053485

Publication No. US20030047680A1

GENERAL INFORMATION:

APPLICANT: Riges, Daniel

TILE OF INVENTION: ELECTROOSMOTIC FLUIDIC DEVICE AND RELATED METHODS

FILE REFRENCE: WOTALLARS: US/10/053,485

CURRENT APPLICATION NUMBER: US/10/053,485

CURRENT APPLICATION NUMBER: US/05.28

PRIOR APPLICATION NUMBER: US 60/069,398

PRIOR APPLICATION NUMBER: US 60/069,398

PRIOR PILING DATE: 1997-12-12

NUMBER OF SEQ ID NOS: 66

SOFTWARE: PatentIn version 3.0

SEQ ID NO 31

LENGTH: 18
                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ô
                                                                                                                                                                                                                                        Query Match 28.8%; Score 30; DB 16; Length 15; Best Local Similarity 57.1%; Pred. No. 5.6e+02; Matches 8; Conservative 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 28.8%; Score 30; DB 14; Length 18; Best Local Similarity 55.6%; Pred. No. 6.9e+02; Matches 5; Conservative 2; Mismatches 2; Indels
                                                                                                                                                       FEATURE:
COTHER INFORMATION: TbpB N-lobes of Bovine Pathgens US-10-769-514-71
PRIOR FILING DATE: 2003-01-31
NUMBER OF SEQ ID NOS: 86
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 71
LENGTH: 15
TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-053-485-31
                                                                                                                                                                                                                                                                                                                               2 NNNEAF----KVEN 11
                                                                                                                                                                                                                                                                                                                                                          1 NNNEAWAKNLKKEN 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |:|| :| |
4 NDAFGIEEG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4 NEAFKVENG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 15
US-10-053-485-31
                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   임
                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
```

Search completed: June 20, 2005, 16:29:58 Job time : 72.4 secs i simila

THIS PAGE BLANK (USPTO)

```
REFERENCE/DOCKET NUMBER: 025.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-5941
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 58:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 anino acids
TYPE: amino acids
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 64, Appl
Sequence 64, Appl
Sequence 5, Appli
Sequence 78, Appl
Sequence 78, Appl
Sequence 77, Appl
Patent No. 5204097
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 58, Appl
Sequence 19, Appl
Sequence 80, Appl
Sequence 12, Appl
Sequence 79, Appl
Sequence 11, Appl
Sequence 12, Appl
Sequence 13, Appl
Sequence 64, Appl
Sequence 64, Appl
Sequence 64, Appl
Sequence 5, Appl
Sequence 5, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 31, Appl
Sequence 17, Appl
Sequence 2, Appl
Batent No. 5204097
Patent No. 5204097
Sequence 64, Appl
Sequence 5, Appl
Sequence 11, Appl
Sequence 22, Appl
Sequence 11, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                        (without alignments)
69.120 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Description
                                                                                                                                                                                                        June 20, 2005, 14:22:28 ; Search time 21.6 Seconds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
/cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
/cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
/cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
/cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
/cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-467-023-58

US-08-467-022-19

US-08-147-5240-80

US-09-142-540-10

US-09-142-540-19

US-09-142-540-19

US-09-142-540-19

US-09-142-540-19

US-08-467-023-59

US-08-191-8660-64

US-08-191-8660-64

US-08-191-8660-64

US-08-191-8660-64

US-08-191-8660-64

US-08-191-8660-64

US-08-191-8660-64

US-08-191-8660-64

US-08-191-8620-19

US-08-191-8620-19

US-08-191-8620-19

US-08-191-96

US-08-142-540-19

US-08-142-540-19

US-08-142-640-19

US-08-147-6340-2

US-08-340-2

US-08-340-2

US-08-340-2

US-08-341-2

US-08-341-802-5

US-08-478-6341-2

US-08-341-802-5

US-08-341-802-5

US-08-341-802-5

US-08-478-6318-12

US-08-478-6318-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        513545 seqs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                    OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                104
1 YNNNEAFKVENGSAAPQLTK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Issued_Patents_AA:*
                                                                                                                                                                                                                                                                                                                                            US-09-202-464-35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query
Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \begin{array}{c} \mathsf{C} \\ \mathsf{
                                                                                                                                                                                                                                                                                                                                                                                Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Database
                                                                                                                                                                                                        Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
```

Appl Appl Appl Appl Appl Appl Appl Appl		
222222222222222222222222222222222222222		
Sequence Seq		E
ស្តីស្តីស្តីស្តីស្តីស្តីស្តីស្តីស្តីស្តី		s From
		<u>ø</u>
		s And Peptides len Corporation, Ii
- 9000A-22 - 546A-121 - 546A-22 - 818-21 - 105-21 - 105-2		-0 # 0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -
00000000000000000000000000000000000000	NTS	
S-08-476-900A S-08-488-546A S-08-488-546A S-08-470-419- S-08-290-105- S-08-290-105- S-09-635-105- S-09-635-105- S-09-636-805- S-09-636-805- S-09-636-805- S-09-636-805- S-09-636-805- S-09-636-805- S-09-636-805- S-09-636-805- S-09-636-805- S-09-636-805- S-09-636-805- S-09-636-805-805-805-805-805-805-805-805-805-805	ALIGNMENTS	א ט ע פ
08-476 08-488 08-488 08-488 08-488 08-488 09-636 09-636 09-636 09-636 09-636 09-636 09-636 09-636	ALIC	/08467023 win J.; nne; nne; F.; ard D; nng; ew; h.; ew, f.;
		US/0846705 Irwin J.; Joanne; Jichard D; Joanne; Jichard D; Chang; Lehari H.; Indrew; Indrew; Allergenic Japanese Ce Japanese
ਜ਼ਜ਼ਜ਼ਸ਼ਸ਼ਸ਼ਜ਼ਜ਼ਜ਼ਜ਼ਜ਼ਜ਼ਜ਼		Irwin J. US/08467 Irwin J. Joanne; Itan F.; Itan
		T 1 -467-023-58 uence 58, Application US/08467023 ent No. 6090308 NERAL INPORMATION: APPLICANT: POLIOCK, Joanne; APPLICANT: Bolnock, Joanne; APPLICANT: POLIOCK, Joanne; APPLICANT: Garman Richard D; APPLICANT: Rung, Sil-mei H; APPLICANT: Rung, Sil-mei H; APPLICANT: Brauer, Andrew; APPLICANT: Waltham COUNTRY: Waltham COUNTRY: Waltham COUNTRY: Waltham COUNTRY: Waltham COUNTRY: Waltham COUNTRY: BP PC Compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARER: Patentin Release #1.0 CURSIFICATION NUMBER: US/08/467,0 FILING DATE: Due 6, 1995 CLASSIFICATION DATA: APPLICATION NUMBER: US/08/56 FILING DATE: December 6, 1994 ATTORNEY, AGENT INFORMATION: NAME: Jane E. Remillard REGISTRATION NUMBER: 38,872 REFERENCE/DOCKET NUMBER: 38,872 REFERENCE/DOCKET NUMBER: 3025.6
		-58 6090386 6090386 6090386 FORMATION: T: FOLIOCK, JOG T: Bond, Julian T: Ruo, Mei-Chall T: Kuo, Mei-Chall T: Exley, Mark T: Powers, Stu-N T: Exley, Mark T: Mark T: Exley, Mark T: Mark
99999999999999		1386 cat: 1386 c
00000000000000000000000000000000000000		CONTRACTOR S DAYS A 1.5" NECK BE A XOE BOOM
78888888888888888888888888888888888888		T 1 -467-023-58 uence 58, Application U uence 58, Application U NEAL INFORMATION: APPLICANT: Griffeth, I APPLICANT: Griffeth, I APPLICANT: Gorman, Ric APPLICANT: Gorman, Ric APPLICANT: Gorman, Ric APPLICANT: Gorman, Ric APPLICANT: Woun, Mark APPLICANT: Brauer, And APPLICANT: Gorman CONNERS ENGENCES: CORRESPONDENCE ADDRESS: ADDRESSE: Immulogic STATE: Mark CONNTR: Mark CONNTR: Mark CONNTR: Mark ACONUTR: Mark ACONUTR: Mark CONPUTR: Brach COMPUTR: IBM PC COM OPERATING SYSTEM: PC SOCTWARE: PEACHLIN READ APPLICATION NUMBER: FILING DATE: Judne 6, CLASSIFICATION NUMBER: FILING DATE: Decembe ATTORNEY/AGENT INFORMAT: REGISTRATION NUMBER: FILING DATE: Decembe ATTORNEY/AGENT INFORMAT: NAME: Jane E. Remill REGISTRATION NUMBER:
		1 1 1467-023-5 ent No. 60 NERAL INFO APPLICANT: COUNTRY: COUNTRY: COUNTRY: COMPUTER R APPLICAT FILING D CLASSIFING D CLASSIFING D CLASSIFING D ATTORNEY/AP FILING D ATTORNEY/AP FILING D ATTORNEY/AP FILING D ATTORNEY/AP FILING D ATTORNEY/AP APPLICAT FILING D ATTORNEY/AP APPLICAT FILING D ATTORNEY/AP
22888888888888888888888888888888888888		SULT 1 -08-467-0 Sequence Patent No BEDLIC APPLIC COMPUT COMPUT COMPUT COMPUT COMPUT FILLI FILL
		RESULT 1 US-08-467-023-58 Sequence 58, A PAPLICANT: APPLICANT: COUNTRY: COUNTRY: CONPUTER: CONPUTER: CONPUTER: APPLICATING SOFTWARE: CONPUTER: CONPUTER: APPLICATING SOFTWARE: CONPUTER: APPLICATING SOFTWARE: APPLICATING APPLICANT APPL

```
Sequence 4, Application US/08773008 Patent No. 5874401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5 EAFKVENGSAAPQLTK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EAFNVENGXATPOLTK 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGIH: 16 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity 81.2
Matches 13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEX: 248633
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                             20004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-142-524D-80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-773-008-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                   ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .;
0
                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Bond, Julian F.;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Growers, Steven P.
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCES. 261
                                             Query Match 71.2%; Score 74; DB 3; Length 20; Best Local Similarity 70.0%; Pred. No. 3.3e-06; Matches 14; Conservative 1; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc. STREET: 610 Lincoln St. CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION DATA:

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,023

FILING DATE: June 6, 1995

FILING DATE: June 6, 1995

PRIOR APPLICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remilland

REGISTRATION NUMBER: 38,872

REPERRENCE/POCKET NUMBER: 38,872

REPERRENCE/POCKET NUMBER: 38,872

REPERRENCE/POCKET NUMBER: 025.6 USD2 (IMI-028CPD2)

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEPHONE: (617) 227-7400

TELEPHONE: (617) 227-7400

TELEPHONE: (617) 227-5941

INFORMATION FOR SEQ ID NO: 19:

SEQUENCE CHARACTERISTICS:

LENGTH: 16 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 64.4%; Score 67; DB 3; Le
Best Local Similarity 81.2%; Pred. No. 4.2e-05;
Matches 13; Conservative 1; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; ORGANISM: Cryptomeria japonica
US-08-467-023-19
                                                                                                                                                                                                                                                                                                                Sequence 19, Application US/08467023 Patent No. 6090386
                                                                                                                                                                            1 YNNNEAFKVENGSAAPQLTK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 EAFNVENGNATPOLTK 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY: US
ZIP: 02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY:
US-08-467-023-58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
```

```
APPLICANT: Kume, Akinori
APPLICANT: Dalriki, Kazuo
APPLICANT: Dalriki, Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseas
FILE REPERENCE: SPO-108
CURRENT APPLICATION NUMBER: US/09/142,524D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
GENERAL INFORMATION:
APPLICANT: SANOU, OBAMU
APPLICANT: HINO, KATEUNIKO
APPLICANT: KIRIMOTO, MAGGASHI
TITLE OF INVENTION: PROTEIN, PROCESS TO PRODUCE THE SAME,
TITLE OF INVENTION: AND USES THEREOF
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STRATE: D.C.
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        63.5%; Score 66; DB 2; Length 16; 81.2%; Pred. No. 6.2e-05; Live 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Elappy disk
COMPUTER: Elap C Compatible
OPERATING SYSTEM: PC-0DS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/773,008
FILING DATE: 24-DEC-1996
CLASSIFICATION DATA:
APPLICATION NUMBER: US 08/354,815
FILING DATE: 08-DEC-1994
APPLICATION NUMBER: US 08/354,815
FILING DATE: 08-DEC-1993
ATTORNEY/AGENT INFORMATION:
NAME: YUN, Allen C.
REGISTRATION NUMBER: 37,971
REFERENCE/DOCKET NUMBER: 37,971
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEBRAK: 202-737-3528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 80, Application US/09142524D Patent No. 6719976
PATENT NO. 6719976
APPLICANT: Sone, Toshio
```

```
Sequence 81. Application US/09142524D

Facent No. 6719976
Facent No. 6719976
FAPLICANT: Sone, Toshio
FAPLICANT: Sone, Toshio
FAPLICANT: Mame, Akinori
FAPLICANT: Iwama, Akinori
FAPLICANT: Iwama, Akinori
FILE REPERENCE: SPO-103
FILE REPERENCE: SPO-
                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Allergenic Proteins And Peptides From Japanese Cedar Pollen
                                                                                                                                                                                                                                                                                                                                 46.2%; Score 48; DB 4; Length 15; 64.3%; Pred. No. 0.079;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    41.3%; Score 43; DB 4; Length 15; 80.0%; Pred. No. 0.59;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
SOFTWARE: Patentin version 3.1
SEQ ID NO 79
LENGTH: 15
TYPE: PRT
ORGANISM: Cryptomeria japonica
FRATURE:
FRATURE:
FRATURE:
FRATURE:
LOCATION: (1)...(15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PEATURE:
NAMB/KEY: MISC FEATURE
LOCATION: (1): (15)
US-09-142-524D-81
                                                                                                                                                                                                                                                                                                                                                                                            1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; Sequence 59, Application US/08467023; Patent No. 6090386; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Griffeth, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kuo, Mei-Chang;
Yeung, Siu-mei H.;
Brauer, Andrew;
Exley, Mark A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergeni
TITLE OF INVENTION: Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 YTKKEAFNVENGNA 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 YNNNEAFKVENGSA 14
                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 64.3
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11 NGSAAPQLTK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 NGNATPOLTK 10
                                                                                                                                                                                                                                                                       US-09-142-524D-79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 7
US-09-142-524D-81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-467-023-59
                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FRACEDIA NO. 0.129/0b

GENERAL INFORMATION:
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Kume, Akinori
APPLICANT: Wazuo
APPLICANT: Wino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dises
FILE REFERENCE: SPO-103
FUNRENT APPLICATION NUMBER: US/09/142,524D
CURRENT APPLICATION NUMBER: US/09/142,524D
PRIOR APPLICATION NUMBER: PET/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 12
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Iwama, Akinori
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OP INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                     Score 62; DB 4; Length 15;
Pred. No. 0.00029;
1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     51.9%; Score 54; DB 4; Length 20;
100.0%; Pred. No. 0.01;
tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                    NAME/KEY: MISC_FEATURE

COCATION: (1)...(15)

OTHER INFORMATION: Cryjl peptide, Figure 1, Row 66

18-09-142-224D-80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
   PRIOR APPLICATION NUMBER: PCT/JP97/00740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; Sequence 12, Application US/09142524D
; Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; Sequence 79, Application US/09142524D
; Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                               59.6%;
                                                                                                                                                                                                            ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Cryptomeria japonica
                        PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 80
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6 AFKVENGSAAPQLTK 20
                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 80.09
Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 YNNNEAFKVE 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity
Matches 10; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 5
US-09-142-524D-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 6
US-09-142-524D-7.9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-142-524D-12
                                                                                                                                                    LENGTH: 15
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                              FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
```

```
ô
                                                                                                                                                                                                            GENERAL INFORMATION:
APPLICANT: Cochran, Mark D
APPLICANT: Cochran, Mark D
APPLICANT: Macdonald, Richard D.
TITLE OF INVENTION: Recombinant Infectious Bovine
TITLE OF INVENTION: Rhinotracheitis Virus S-IBR-052 And Uses Thereof
NUMBER OF SEQUENCES: 99
CORRESPONDENCE ADDRESS:
ADDRESSEE: John P. White
STREET: 1185 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30.8%; Score 32; DB 1; Length 17; 50.0%; Pred. No. 57; 2; Indels tive 3; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 64, Application US/08185949B
Patent No. 5974279
GENERAL INFORMATION:
APPLICANT: Mark D. Cochran
APPLICANT: Richard D. Macdonald
ITILE OF INVENTION: Recombinant Infectious Bovine
ITILE OF INVENTION: Rhinotracheitis Virus
NUMBER OF SEQUENCES: 104
CORRESPONDENCE ADDRESSE:
ADDRESSEE: John P. White
STREET: 1185 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: Patentin Release #1.0, Version #1.25
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/191,866D
FILING DATE: 4 February 1994
CLASSIFICATION: 435
ATTONNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFRAK: (212) 391-0525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                            Sequence 64, Application US/08191866D
Patent No. 5783195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  64:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEX: 422523
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 30.8
Best Local Similarity 50.0
Matches 5; Conservative
         1 YNNNEAFKVENG 12
                                                    2 YKHNEATDIEKG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: linear
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7 FKVENGSAAP 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      amino acid
GY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                      CITY: New York
STATE: New York
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: New York
STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: UZIP: 10036
                                                                                                                      RESULT 10
US-08-191-866D-64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-191-866D-64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-08-185-949B-64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
           ò
                                                 ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 31, Application US/09490702B

Sequence 31, Application US/09490702B

Sequence 31, Application US/09490702B

Sequence 31, Application US/09490702B

GENERAL INFORMATION:

APPLICANT: Mandell, Arnold

APPLICANT: Salz, Karen

APPLICANT: Salz, Karen

APPLICANT: Salz, Karen

TITLE OF INVENTION: Functions of Receptors and/or Other Proteins

TITLE OF INVENTION: Punctions of Receptors and/or Other Proteins

TITLE OF INVENTION: 105/00000

CURRENT APPLICATION NUMBER: US/09/490, 702B

CURRENT FILING DATE: 2000-01-24

NUMBER OF SEQ ID NOS: 96

SOFTWARE: PatentIn version 3.0

SEQ ID NO 31

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    41.3%; Score 43; DB 3; Length 20; 80.0%; Pred. No. 0.84;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 32.7%; Score 34; DB 4; Length 15; Best Local Similarity 50.0%; Pred. No. 22; Matches 6; Conservative 2; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1; Indels
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
                                                                                                                                                          ZIP: OSTS4
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: BATENTIN Release #1.0, Version #1.25
SOGTWARE: PEPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/FOOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELEPHONE: (617) 227-7400
TELEPHONE: (617) 227-5941
INFORMATION FOR SEQ ID NO: 59:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 aming acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: misc feature
) OTHER INFORMATION: synthetic
US-09-490-7028-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11 NGSAAPOLTK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 NGNATPOLTK 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino acid
TOPOLOGY: linear
                                                           STREET: bro-
                                                                                                                                            USA
                                                                                                                      STATE: M. COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-467-023-59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
```

ઠે

ö

Gapa ö

```
TITE OF INTENTION: Paper of Page of Immunotherapeutic Agent for Treating Allergic Disease FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 78
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29.8%; Score 31; DB 4; Length 15; 60.0%; Pred. No. 72; 4; Indels tive 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: MISC_REATURE
1. LOCATION: (1)...(15)
1. OTHER INFORMATION: Cryjl peptide, Figure 1, Row 64
1. OS-09-142-284D-78
                                                                                                                                                                                                                                                                                                                                                        Score 31; DB 1;
Pred. No. 66;
                                                                                                                                                                                                                                                                                                                                                                                                          3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-142-524D-78
Sequence 78, Application US/09142524D
Patent No. 6719976
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 57, Application US/08467023 Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Griffeth, Irwin J.;
Pollock, Joanne;
Bond, Julian F.;
Garman, Richard D;
Kuo, Mei-Chang;
Yeung, Siu-mei H.;
Brauer, Andrew;
Exley, Mark A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Cryptomeria japonica
PEATURE:
                                                                                                                                                                                                                                                                                                                                                             29.8%;
                                                                                                                                                                            ; wingle
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
US-07-961-724C-5
                                   (703) 413-2220
                                                                                                                          LENGTH: 14 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                         TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ouery Match
Best Local Similarity 60.0.
Local 6; Conservative
                                                                                                                                                                                                                                                                                                                                                               Query Match 29.8
Best Local Similarity 54.5
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Dairiki, Kazuo
APPLICANT: Iwama, Akiko
APPLICANT: Kino, Kohsuke
                                                                                                                                                                                                                                                                                                                                                                                                                                                     10 ENGSAAPQLTK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4 OSEKAAPOLSK 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Sone, Toshio APPLICANT: Kume, Akinori
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 YNNNEAFKVE 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6 YTKKEAFNVE 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
APPLICANT: Griffeth
APPLICANT: POLIOCK,
APPLICANT: Bond, JU
APPLICANT: Garman,
APPLICANT: Kuo, Mei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 14
US-08-467-023-57
                                 TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 5, Application US/07961724C

Sequence 5, Application US/07961724C

Sequence 5, Application US/07961724C

Sequence 5, Application US/07961726C

Sequence 6, Application US/07961726C

APPLICANT: FACON, BRIGITTE
APPLICANT: CAPRON, ANDRE
APPLICANT: TRATAR, ANDRE
APPLICANT: GRAS-MASSE, HELENE
TITLE OF INVENTION: IMMONOGENIC PEPTIDE SEQUENCE OF
TITLE OF INVENTION: PEPTIDE SEQUENCE AND DIAGNOSTIC AND THERAPEUTIC
TITLE OF INVENTION: PEPTIDE SEQUENCE AND DIAGNOSTIC AND THERAPEUTIC
TITLE OF INVENTION: PEPTIDE SEQUENCE AND DIAGNOSTIC AND THERAPEUTIC

NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS: 17
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
ADDRESSEE: P.C.
STREET: 1755 S. Jefferson Davis Highway, Suite 400
CITY: ALIMPORATION
STATET: Vi-cition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 30.8%; Score 32; DB 2; Length 17; Best Local Similarity 50.0%; Pred. No. 57; Matches 5; Conservative 3; Mismatches 2; Indels
MEDIUM TYPE: Floppy disk
COMPUTER: IBM 330 466 DX2
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/185,949B
FILING DATE: 03-NOV-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: ,678
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFAX: (212) 278-0400
TELEFAX: (212) 278-0525
INFORMATION FOR SEQ ID NO: 64:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 amino acids
TYPE: amino acid
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SCFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/961,724C
FILING DATE: US/07/961,724C
ATONNEY/AGENT INFORMATION:
NAME: Oblon, No. 5541078man F.
REGISTRATION NUMBER: 24,618
REGISTRATION NUMBER: 24,618
REGISTRATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDLUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // MOLECULE TYPE: protein US-08-185-9498-64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7 FKVENGSAAP 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2 YKIESGCARP 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Virginia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 12
US-07-961-724C-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
```

ö

Gaps

ö

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
APPLICANT: Powers, Steven P.

TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
STREET: ADDRESSE: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STREET: 610 Lincoln St
CITY: Waltham
STREET: 610 Lincoln St
COUNTRY: USA
COUNTRY: USA
COUNTRY: USA
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPREATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NUMBE: Jane R PRAINTINA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 15
5204097
; Patent No. 5204097
; Patent No. 5204097
; DONOHUB-ROLFE, ARTHUR
; DONOHUB-ROLFE, ARTHUR
; TILLE OF INVENTION: SHIGA TOXIN B CHAIN POLYPEPTIDES AND
; VACCINE THERETO
 NUMBER OF SEQUENCES: 5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/364,506
FILING DATE: 09-UNN-1989
; RILING APPLICATION NUMBER: 109-203
; RILING APPLICATION NUMBER: 70,243
; FILING APPLICATION NUMBER: 70,243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 30; DB 6; Length 14;
Pred. No. 99;
4; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 29.8%; Score 31; DB 3; Length 20; Best Local Similarity 60.0%; Pred. No. 1e+02; Matches 6; Conservative 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REGISTRATION NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEPASK: (617) 227-5941
INFORMATION FOR SEQ ID NO: 57:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    : 20 amino acids
amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 28.8
Best Local Similarity 41.7
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 YNDDDTFTVKVG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 YNNNEAFKVENG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 YNNNEAFKVE 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11 YTKKEAFNVE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ;SEQ ID NO:4:
; LENGTH: 14
5204097-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-467-023-57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
```

g ,

```
Search completed: June 20, 2005, 16:00:54 Job time : 21.6 secs
```

```
Sequence 81, Appl
Sequence 83, Appl
Sequence 8, Appl
Sequence 8, Appl
Sequence 11, Appl
Sequence 1, Appli
Sequence 7, Appli
Sequence 10, Appli
                                                                                                                                                                        June 20, 2005, 15:55:27; Search time 72.4 Seconds (without alignments) 106.072 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 82,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PUDJISHAGA APPLICATIONS AND THE COMB. DEPT. (1) (2012_6/ptodata/2/pubpaa/USO7_PUBCOMB. DEPT.* (2012_6/ptodata/2/pubpaa/USO6_PUBCOMB. DEPT.* (2012_6/ptodata/2/pubpaa/USO6_PUBCOMB. DEPT.* (2012_6/ptodata/2/pubpaa/USO7_NEW_PUB. DEPT.* (2012_6/ptodata/2/pubpaa/USO7_NEW_PUB. DEPT.* (2012_6/ptodata/2/pubpaa/USO8_NEW_PUB. DEPT.* (2012_6/ptodata/2/pubpaa/USO8_PUBCOMB. DEPT.* (2012_6/ptodata/2/pubpaa/USO8_PUBCOMB. DEPT.* (2012_6/ptodata/2/pubpaa/USO9_PUBCOMB. DEPT.* (2012_6/ptodata/2/pubpaa/USO9_PUBCOMB. DEPT.* (2012_6/ptodata/2/pubpaa/USO9_PUBCOMB. DEPT.* (2012_6/ptodata/2/pubpaa/USO9_PUBCOMB. DEPT.* (2012_6/ptodata/2/pubpaa/USO9_PUBCOMB. DEPT.* (2012_6/ptodata/2/pubpaa/USO10_PUBCOMB. DEPT.* (2012_6/ptodata/2/pubpaa/USO0_NEW_PUB.* PUB.* PUB.* (2012_6/ptodata/2/pubpaa/USO0_NEW_PUB.* PUB.* PUB.* (2012_6/ptodata/2/pubpaa/USO0_NEW_PUB.* PUB.* PUB.* (2012_6/ptodata/2/pubpaa/USO0_NEW_PUB.* PUB.* PUB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            332641
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-354-240-82
US-10-354-240-81
US-10-354-240-83
US-10-354-240-83
US-10-480-441-8
US-10-480-465-1
US-10-480-465-1
US-10-480-465-1
US-10-193-477-39
US-10-193-477-39
US-10-193-477-39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1714042 segs, 383979560 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Published Applications AA:*
                                                                                                                      OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                  100
1 NGSAAPQLTKNAGVLTCILS 20
                                                                                                                                                                                                                                                                                                                                                                                                                      BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                  US-09-202-464-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     seg length: 0
seg length: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query
Match 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          70
67
84
32
32
32
30
30
30
                                                                                                                                                                                                                                                                                                  Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                         Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Minimum DB E
Maximum DB E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Database :
                                                                                                                                                                                                                                                                                                                                                              Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Searched:
                                                                                                                                                                                  Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Result
No.
```

Sequence Sequence

	Diseas
Appling Applin	Allergic 0,
52, Appl 6027, Ap 918069, Appl 8069, Appl 8069, Appl 8069, Appl 8061, Appl 80	
	Treating 0; Gaps
Sequence 52, Appl Sequence 6027, Ap Sequence 451, Appl Sequence 451, Appl Sequence 25, Appl Sequence 25, Appl Sequence 25, Appl Sequence 27, Appl Sequence 27, Appl Sequence 28, Appl Sequence 28, Appl Sequence 28, Appl Sequence 18, Appl Sequence 18, Appl Sequence 18, Appl Sequence 136, Appl Sequence 136, Appl Sequence 136, Appl Sequence 136, Appl Sequence 474, Appl Sequence 474, Appl Sequence 475, Appl Sequence 476, Appl Sequence 476, Appl Sequence 476, Appl Sequence 11,	
	. for
	c Agent
2 9 8 9 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
52	TS herapeut 1, Row DB 14; 0.0002;
11-17-114-11-11-11-11-11-11-11-11-11-11-11-11	NTS e 1, DB 0.00
US-10-488-662-52 US-10-107-532-6027 US-09-864-761-48069 US-09-572-270A-451 US-09-572-270A-455 US-09-572-270A-455 US-09-572-270A-455 US-09-572-270A-455 US-10-492-794-67 US-10-482-190-73 US-10-483-190-73 US-10-801-1553 US-10-801-131-138 US-10-801-131-138 US-10-99-43-18 US-10-99-43-18 US-10-99-136-29970 US-09-813-331-78 US-10-29-136-29970 US-09-813-331-78 US-10-29-138-331-78 US-10-29-138-331-78 US-10-29-138-331-78 US-10-29-183-331-78 US-10-59-138-331-78 US-10-59-138-331-78 US-10-59-943-136 US-10-59-943-136 US-10-601-953-475 US-10-601-953-475 US-10-601-953-475 US-10-601-953-475 US-10-601-953-475 US-10-601-953-475 US-10-201-125-30 US-10-201-125-30	ALIGNMENTS 40 700740 77,00740 42,524 42,524 62,524 62,000 62,000 Mismatches
US-10-488 US-10-488 US-10-107 US-10-861 US-10-861 US-10-861 US-10-177 US-10-861 US-10-177 US-10-861 US-10-871 US-10-	ALIGNM 354240 1 354240 15/10/354,2 -29 7/JP97/0074 09/142,524 1 1 ca Score 70 Pred: Nigma
$\frac{731}{2}$ $\frac{6}{2}$ $$	nn US/10354; 185847A1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
	US/10 15847A 11 10 10 10 10 10 10 10 10 10 10 10 10
4440444444444	
	Licat 198200 100: 100: 100: 100: 100: 100: 100: 1
	2, Application No. US203011 No. US203010 1 Sone, Toshio 1 Kume, Akino 1 Kume, Akino 1 Kino, Kohsu 1 Nama, Akik 1 Kino, Kohsu 1 Kohsu 1 Nama, Akik 1 Kino, Kohsu 1 Kohsu 1 Nama, Akik 1 Kino, Kohsu 1 Kino, Kohsu 1 Kohsu 1 Nama, Akik 1 CATION NUMBE 1 Nama 1 Cryptomeria 1 Cryptomeria 1 Cryptomeria 1 Cryptomeria 1 Nama 1 Nam
88888888888888888888888888888888888888	SULT 1 10-354-240-82 Sequence 82, Application to US2003 SEDENAL INFORMATION: APPLICANT: Sone, Tost APPLICANT: Kume, AAPPLICANT: Iwame, AAPPLICANT: Is Iwame, AAPPLICANT: Is Iwame, Is Iwame, Is Iwame, Is Iwame, Iw
	ULT 1 10-354-240 ubdication 1 u
1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2	
·	80.

ઠે

```
APPLICANT: Sone, Akinori
APPLICANT: Sone, Akinori
APPLICANT: Mume, Akinori
APPLICANT: Mane, Akinori
APPLICANT: Mane, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Mane, Akiko
APPLICANT: Mane, Akiko
APPLICANT: Wino, Kohauke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
TITLE REFERENCE: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 1999-03-01-29
FRIOR PILING DATE: 1999-03-00
PRIOR PILING DATE: 1999-03-09
PRIOR PILING DATE: 1998-09-09
PRIOR PILING DATE: 1998-09-09
PRIOR PILING DATE: 1998-09-09
PRIOR FILING DATE: 1998-09-09
PRIOR PILING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Armbruster, Franz Paul
APPLICANT: Karmatschek, Markus
APPLICANT: Karmatschek, Markus
APPLICANT: Karmatschek, Mats
TITLE OF INVENTION: PROBLEMS
TOWNER TELING DATE: 2003-12-12
CURRENT FILING DATE: 2001-06-13
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin version 3.1
SEQ ID NO 8
LENGTH: 15
                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .
0
                                                                                                      ö
                              Score 54; DB 14; Length 15;
Pred. No. 0.086;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    32.0%; Score 32; DB 17; Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 43; DB 14; Length 15;
Pred. No. 5.5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; NAME/KEY: MISC_FEATURE
; LOCATION: (1)...(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 66
US-10-354-240-80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 80, Application US/10354240 Publication No. US20030185847A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-480-441-8
; Sequence 8, Application US/10480441
; Sequence N. OS20505054016A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 43.0%;
80.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 91.7
Matches 11, Conservative
                                                                                                                                                                    9 TKNAGVLTCILS 20
                                                                                                                                                                                                                                     1 TKNAGVLTCSLS 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 NGSAAPQLTK 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6 NGNATPOLTK 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                       US-10-354-240-80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-480-441-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                              d
                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                       Squence 81, Application US/10354240

| Publication No. US20001085847A1
| GENERAL INFORMATION:
| APPLICANT: Sone, Toshio
| APPLICANT: Sone, Toshio
| APPLICANT: Wame, Akinori
| CURRENT FILING DATE: 2093-01-29
| PRIOR FILING DATE: 1998-09-09
| WAMBER OF SEQ ID NOS: 174
| SOFTWARE: PatentIn version 3.1
| SSEQ ID NO 81
| LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 83, Application US/10354240

Sequence 83, Application US/2030185847A1

Rebblication No. US20030185847A1

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Kume, Akinori

APPLICANT: Wine, Kohsuke

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea

FILE REFERENCE: SPO-103D1

CURRENT FILING DATE: 1997-033-01-29

PRIOR FILING DATE: 1997-03-10

PRIOR FILING DATE: 1998-09-09

NUMBER OF SEQ ID NOS: 174

SOFTWARE: Patentin version 3.1

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       67.0%; Score 67; DB 14; Length 15; 86.7%; Pred. No. 0.00064;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: MISC FEATURE
LOCATION: (1). (15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCATION: (1). (15)
OTHER INFORMATION: Cryjl peptide, Figure 1, Row 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Cryptomeria japonica
6 POLTKNAGVLTCILS 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 NGSAAPQLTKNAGVL 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 3
US-10-354-240-83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-354-240-81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-354-240-83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                             셤
```

ద

```
RESULT 9

US-10-480-465-10

i Sequence 10, Application US/10480465

i Publication No. US20050669547A1

i GENERAL INFORMATION:

i APPLICANT: Armbrueter, Franz Paul

i APPLICANT: Rarmatschek, Markus

APPLICANT: Porsmann, UIF Jorg

i APPLICANT: Porsmann, UIF Jorg

APPLICANT: Porsmann, UIF Jorg

i APPLICANT: Paulsson, Mats

APPLICANT: Paulsson, Mats

i TITLE OF INVENTION: MEDICAMENT FOR TREATING TUMORS AND THEIR METASTASES

i TILLE OF INVENTION: MEDICAMENT: POT/EP02/06465

CURRENT FILING DATE: 2003-12-12

PRIOR FILING DATE: 2002-06-12

i NUMBER: PATENTION NUMBER: POT/EP02/06456

i NUMBER: PATENTION NUMBER: POT/EP02/06456

i REGO ID NOS: 18

i SOFTWARE: PatentIn version 3.1

i EBQTH: IS

i MUNICH: IS
                                                 Sequence 7, Application US/10480465

Sequence 7, Application US/10480465

Publication No. US20050069547A1

GENERAL INFORMATION:

APPLICANT: Karmatschek, Markus

APPLICANT: Roremann, U1f Jorg

APPLICANT: Porsmann, U1f Jorg

APPLICANT: Paulsson, Mats

CURRENT PILIANT IN EDICAMENT FOR TREATING TUMORS AND THEIR METASTASES

FILE REFERENCE: 0756-123P

CURRENT FILING DATE: 2003-12-12

PRIOR APPLICATION NUMBER: PCT/FD02/06456

PRIOR PLING DATE: 2002-06-12

NUMBER OF SEQ ID NOS: 18

SOFTWARE: Patentin version 3.1

SEQ ID NO 7

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       32.0%; Score 32; DB 17; Length 15; 66.7%; Pred. No. 3.5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 17; Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 32; DB 17;
Pred. No. 3.5e+02;
0; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 39, Application US/10193477; Publication No. US20030195163A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 32.0%;
Best Local Similarity 66.7%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity 66.7
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 GSAAPQLTKNAG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 GSAAPQLTKNAG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3 GLAAIQLPKKAG 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3 GLAAIQLPKKAG 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-193-477-39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-480-465-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-480-465-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                      US-10-480-441-11

| Sequence 11, Application US/10480441
| Sequence 11, Application US/10480441
| Publication No. US20050054016A1
| Publication No. US20050054016A1
| APPLICANT: Armbruster, Franz Paul
| APPLICANT: Armbruster, Markus
| APPLICANT: Paulsson, Mats
| TITLE OF INVENTION: DETERMINATION OF BONE-SIALOPROTEIN IN BODILY FLUIDS FOR ONCOLOGIC
| TITLE OF INVENTION: PROBLEMS
| FILE REFERENCE: 0756-0122P
| CURRENT APPLICATION NUMBER: US/10/480,441
| CURRENT FILING DATE: 2003-12-12
| PRIOR APPLICATION NUMBER: EP 01114388
| PRIOR APPLICATION UNBER: EP 01114388
| NUMBER OF SEQ ID NOS: 15
| SOFTWARE: Patentin version 3.1
| SEQ ID NO 11
| LENGTH: 15
                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Astmatechek, Markus
APPLICANT: Nader, Werner
APPLICANT: Nader, Werner
APPLICANT: Porsemann, Ulf Jorg
APPLICANT: Porsemann, Ulf Jorg
APPLICANT: Paulsson, Mats
APPLICANT: Berger, Martin R.
TITLE OF INVENTION: MEDICAMENT FOR TREATING TUMORS AND THEIR METASTASES
FILE REFERENCE: 0756-122
CURRENT APPLICATION NUMBER: US/10/480,465
CURRENT FILING DATE: 2003-12-12
PRIOR APPLICATION NUMBER: PCT/EP02/06456
PRIOR FILING DATE: 2002-06-12
NUMBER OF SEQ ID NOS: 18
SOFTWARE: Patentin version 3.1
                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 32; DB 17; Length 15;
Pred. No. 3.5e+02;
0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 32; DB 17; Length 15;
Pred. No. 3.5e+02;
0; Mismatches 4; Indels
                           4; Indels
Best Local Similarity 66.7%; Pred. No. 3.5e+02; Matches 8; Conservative 0; Mismatches 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-480-465-1

Sequence 1, Application US/10480465

Publication No. US20050069547A1

; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Armbruster, Franz Paul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              32.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          32.0%;
66.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 32.0
Best Local Similarity 66.7
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 32.0
Best Local Similarity 66.7
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 GSAAPOLTKNAG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2 GSAAPQLTKNAG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3 GLAAIQLPKKAG 14
                                                                     2 GSAAPQLTKNAG 13
                                                                                                                    3 GLAAIQLPKKAG 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3 GLAAIQLPKKAG 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEO ID NO 1
LENGTH: 15
TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-480-441-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-480-465-1
```

g ò

g

```
APPLICANT: CANDOLLE, Aya
APPLICANT: CANDOLLE, Aya
APPLICANT: Morrison, Karen Jane Meyrick
APPLICANT: Morrison, Karen Jane Meyrick
APPLICANT: Morrison, Karen Jane Meyrick
APPLICANT: Mary
APPLICANT: Afar, Daniel E.H.
APPLICANT: Raitano, Arthur
APPLICANT: Raitano, Arthur
APPLICANT: Raitano, Arthur
APPLICANT: Callite-Eid, Pia M.
TITLE OF INVENTION: Entitled 158P3D2 Useful in Treatment and Detection of Cancer;
TITLE OF INVENTION: Brait 169 158P3D2 Useful in Treatment and Detection of Cancer;
TITLE OF INVENTION: DATE: 2002-08-05
FILE SPERENCE: 51158-200064.00
CURRENT APPLICATION NUMBER: 60/283,112
PRIOR APPLICATION NUMBER: 60/283,112
PRIOR APPLICATION NUMBER: 60/286,630
PRIOR APPLICATION NUMBER: 60/286,630
PRIOR APPLICATION NUMBER: 60/286,630
PRIOR APPLICATION NUMBER: 501-04-10
PRIOR APPLICATION NUMBER: 501-04-10
PRIOR APPLICATION NUMBER: 60/286,630
PRIOR APPLICATION NUMBER: 501-04-10
PRIOR APPLICATION NUMBER: 501-04-10
PRIOR APPLICATION NUMBER: 501-04-25
NUMBER OF SEQ ID NOS: 6221
SOFTWARE: FastsEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 9, Application US/10801988
| Sequence 9, Application US/2005031A1
| GENERAL INFORMATION:
| APPLICANT: GEORGES, LUCILE
| APPLICANT: BONNEAU, ANNE-MARIE
| APPLICANT: BONNEAU, ANNE-MARIE
| APPLICANT: DALLAIRE, FREDERIC
| APPLICANT: TRIOSEPHOSPHATE ISOMERASE DIRECTED DIAGNOSTICS AND TITLE OF INVENTION: THROSEPHOSPHATE ISOMERASE DIRECTED DIAGNOSTICS AND TITLE OF INVENTION: THEREPEDICS FOR MULTIDRUG RESISTANT NEOPLASTIC DISEASE; FILE REFERENCE: 112418.151
                                                                                                                                                                                                                                                                                                                                  ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 15;
                                                                                                                                                                                                                                                                                   Length 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                              Score 30; DB 17; Length 13
Pred. No. 6.3e+02;
1; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 30; DB 15; Le
Pred. No. 7.4e+02;
2; Mismatches 5;
PRIOR FILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: EP 01121153.9
PRIOR FILING DATE: 2001-09-04
NUMBER OF SEQ ID NOS: 65
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 52
LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; Sequence 6027, Application US/10107532; Publication No. US20040003418A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30.0%;
                                                                                                                                                                                                                                                                                   30.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Agensys, Inc.
APPLICANT: Jakobovits, Aya
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 NGSAAPOLTKNAG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3 NGKADPYVVVSAG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 46.2
Matches 6; Conservative
                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 60.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                      8 LTKNAGVLTC 17
                                                                                                                                                                                                                                                                                                                                                                                                                                      2 LLKNYGLLYC 11
                                                                                                                                                                       TYPE: PRT
) ORGANISM: Homo sapiens
US-10-488-662-52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-107-532-6027
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-107-532-6027
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 14
US-10-801-988-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                      요
               TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING THREE NOVEL HUMAN CELL SURFACE PROTEINS TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING THREE NOVEL HUMAN CELL SURFACE PROTEINS TITLE OF INVENTION: LEUCINE RICH REPEATS AND IMMUNOLOGOBULIN FOLDS, BGS2, 3, AND 4, TITLE OF INVENTION: THEREOF FILE REPERBACE: DO153 NP CURRENT APPLICATION NUMBER: US/10/193,477
CURRENT FILING DATE: 2002-07-11
PRIOR FILING DATE: 2001-07-11
PRIOR FILING DATE: 2001-07-11
PRIOR FILING DATE: 2002-04-12
NUMBER OF SEQ ID NOS: 229
SOFTWARE: PATCHIN VEXESON 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ï
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ë
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30.5%; Score 30.5; DB 14; Length 18; 41.2%; Pred. No. 7.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30.0%; Score 30; DB 17; Length 13; 60.0%; Pred. No. 6.3e+02; Live 1; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 51, Application US/10488662
; Publication No. US20050020494A1
; GENERAL INFORMATION:
    APPLICANT: Carter, Francis J.
    APPLICANT: Carter, Graham
    TITLE OF INVENTION: Modified Human Growth Hormone
    FILE REFERENCE: MRR-127
; CURRENT FALLICATION NUMBER: US/10/488,662
; CURRENT FALLICATION NUMBER: PCT/EP02/09716
; PRIOR PAPLICATION NUMBER: PP 01121153.9
; PRIOR FILING DATE: 2001-09-04
; PRIOR FILING DATE: 2001-09-04
; NUMBER: OF SEQ ID NOS: 65
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 12
US-10-488-662-52
is equence 52, Application US/10488662
is bublication No. US20050020494A1
is GENERAL INFORMATION:
is APPLICANT: Cartr, Francis J.
is APPLICANT: Cartr, Graham
if TITLE OF INVENTION: Modified Human Growth Hormone
if TITLE OF INVENTION: Modified Human Growth Hormone
if CURRENT APPLICATION NUMBER: US/10/488,662
is CURRENT APPLICATION NUMBER: PCT/EP02/09716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4 AAPQLTKNAGVLTCILS 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5 ARPO---DSGTYTCVAS 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 41.2.
Best T; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 60.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | || || |:| |
LLKNYGLLYC 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8 LIKNAGVLTC 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-193-477-39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 11
US-10-488-662-51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-488-662-51
                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 39
LENGTH: 18
                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
```

```
ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US YOU-664 7-14 8069 APPLICATION US VOSB64761 SEQUENCE 48069 APPLICANT Penn, SHETON G. PRETEND G. US VOSD60069763A1 SEQUENCE 48069 APPLICANT Penn, SHETON G. PRETEND G. US VOSD60069763A1 SECTION G. SEPECTAND G. US VOSD60069763A1 SECTION G. SEPECTAND G. SERGESTON ANALYSIS BY MICROARRAY TITLE OF INVERTION UNMARK GROWE-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR TITLE OF INVERTION GENE EXPRESSION ANALYSIS BY MICROARRAY G. SECTION G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 30.0%; Score 30; DB 17; Length 18; Best Local Similarity 42.9%; Pred. No. 9.1e+02; Matches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
CURRENT APPLICATION NUMBER: US/10/801,988
CURRENT FILING DATE: 2004-03-15
PRIOR APPLICATION NUMBER: 60/455,005
PRIOR FILING DATE: 2003-03-14
NUMBER OF SEQ ID NOS: 13
SOFTWARE: Patentin Ver. 3.2
SOFTWARE: PRIOR TIME OF T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5 APQLTKNAGVLTCI 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 AHALAEGLĠVIAĊI 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 15
US-09-864-761-48069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠ
```

```
ö
                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                            ö
                                                                                                                                                                   Score 30; DB 9; Length 20;
Pred. No. 1e+03;
1; Mismatches 4; Indels
; SEQ ID NO 48069
; LENGTH: 20
; CRGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC009613.2
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.6
US-09-864-761-48069
                                                                                                                                                                                                                                                                                                                                        Search completed: June 20, 2005, 16:29:59 Job time: 73.4 secs
                                                                                                                                                                     Query Match
Best Local Similarity 54.5%;
Matches 6; Conservative
                                                                                                                                                                                                                                               7 QLTKNAGVLTC 17
                                                                                                                                                                                                                                                                                    з о́інкоксуісі 13
```

THIS PAGE BLANK (USPTO)

```
02154
                                                                                                                                                                                                                                                                                             RESULT 1
US-08-467-023-59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 83, Appl
Sequence 60, Appl
Sequence 19, Appl
Sequence 58, Appl
Sequence 5, Appl
Sequence 25, Appl
Sequence 12, Appl
Sequence 11, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                         June 20, 2005, 14:22:28; Search time 21.6 Seconds (without alignments) 69.120 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 8
Sequence 6
Sequence 8
Sequence 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 2
Sequence 1
Sequence 1
Sequence 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                       /cgn2_6/ptodata/1/iaa/5A_COMB.ppp:*
/cgn2_6/ptodata/1/iaa/5B_COMB.ppp:*
/cgn2_6/ptodata/1/iaa/6A_COMB.ppp:*
/cgn2_6/ptodata/1/iaa/6B_COMB.ppp:*
/cgn2_6/ptodata/1/iaa/PcTUS_COMB.ppp:*
/cgn2_6/ptodata/1/iaa/PcTUS_COMB.ppp:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-467-023-59

US-09-142-5240-81

US-09-142-5240-81

US-09-142-5240-81

US-09-142-5240-80

US-08-467-023-19

US-08-467-023-19

US-08-467-023-19

US-08-467-023-18

US-08-467-023-18

US-08-467-023-18

US-08-490-7028-25

US-08-100-604-4

US-09-917-726-12

US-08-100-604-4

US-08-100-604-101

US-09-617-12

US-08-101-13

US-08-101-13

US-10-115-123-431

US-10-115-123-431

US-10-115-123-431

US-10-115-123-431

US-09-534-923-10
                                                                                                                                                                                                                                                     Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-178-093B-6
                                                                                                                                                                                                                            513545 seqs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SUMMARIES
                                                                                                                                                                                                                                                                                                                      Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                   OM protein - protein search, using sw model
                                                                                                                                                         1 NGSAAPQLTKNAGVLTCILS 20
                                                                                                                                                                                     BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                             lasued Patents AA:*
                                                                                                                                US-09-202-464-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query
Match Length DB
                                                                                                                                                                                                                                                                               Minimum DB seq length: 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Title:
Perfect score:
                                                                                                                                                                                     Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score
                                                                                                                                                             Sequence:
                                                                                                                                                                                                                            Searched:
                                                                                                                                                                                                                                                                                                                                                                             Database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 õ
```

28	87 7	28.0	20	4	US-10-047-403-6	sednence	۵	Appli
29	27	27.0	13		US-08-089-994A-23	Seguence	23,	App
					TO LOVE TOOL BOOK		. ;	
٦٥	7	0./2	57	n	FCI - 0844 - 0 / 005 - 23	acinemica	Ċ	dd'y
31	27	27.0	14	۳	US-09-120-365-35	Seguence	35,	App]
32	27	27.0	14	~	US-09-515-039-35	Seguence	35,	App]
33	27	27.0	14	6	US-08-990-888-9	Sequence	ď	Appli
34	27	27.0	16	~	US-08-312-202B-4	Sequence	4,	Appli
35	27	27.0	. 91	е	US-09-079-347-4	Sequence	4	Appli
36	27	27.0	16	س	US-09-075-725-4	Sequence	4	Appli
37	27	27.0	16	6	US-08-809-646-4	Sequence	4	Appli
38	27	27.0	16	ß	PCT-US95-12433-4	Sequence	4	App1
39	27	27.0	18	m	US-08-812-121-16	Sequence	16,	App]
40	27	27.0	18	m	US-09-403-672-16	Sequence	16,	App]
41	26.5	26.5	18	_	US-08-159-340A-14	Sequence	14,	Appl
42	26.5	26.5	19	4	US-09-441-502B-94	Sequence	94,	Appl
43	56	26.0	80	~	US-08-666-473-1	Seguence	7	Appli
44	26	26.0	6	~	US-08-340-283-64	Sequence	64,	App]
45	26	26.0	0	~	US-08-340-283-71	Seguence	7,	Appl

ALIGNMENTS

```
USENDER 199

Sequence 59, Application US/08467023

Sequence 59, Application US/08467023

Sequence 59, Application US/08467023

Sequence 59, Application US/08467023

Patent No. 6090386

GENERAL INFORMATION:
APPLICANT: Pollock, Joanne,
APPLICANT: Brauer, Andrew,
APPLICANT: Wallow Severe,
CORRESPONDENCE ADDRESS: 261

COUNTRY: Wallham
COUNTRY:
```

```
GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Sone, Toshio

APPLICANT: Sone, Akinori

APPLICANT: Nama, Akinori

APPLICANT: Iwama, Akiko

APPLICANT: Iwama, Akiko

APPLICANT: Iwama, Akiko

APPLICANT: Iwama, Akiko

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Disease

FILE REFERENCE: SPO-103

FURBENT FILING DATE: 1998-09-09

PRIOR PILING DATE: 1997-03-10

NUMBER OF SEQ ID NOS: 174

SOFTWARE: Patentin version 3.1

SEG ID NO 83

LENGTH: 15

TYPE: PRT

PRANTING NOS: TYPLOMERIA japonica
                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .
0
                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Griffeth, Irwin J.;
APPLICANT: Bollock, Joanne;
APPLICANT: Bollock, Joanne;
APPLICANT: Garman, Richard D;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immulogic Pharmaceutical Corporation, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 54; DB 4; Length 15;
Pred. No. 0.0087;
0; Mismatches 1; Indels
                                                                                              Score 67; DB 4; Length 15;
Pred. No. 4.9e-05;
1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
NAMB/KEY.
TOCATION: (1). [15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 69
US-09-142-524D-83
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 67
US-09-142-524D-81
                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 83, Application US/09142524D Patent No. 6719976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 60, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
                                                                                              67.0%;
86.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 91.7%;
Matches 11; Conservative
                                                                                                                                                                                                                 1 NGSAAPQLTKNAGVL 15
                                                                                                                                                                                                                                                                    1 NGNATPOLIKNAGVL 15
                                                                                              Query Match
Best Local Similarity 86.7
Matches 13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               610 Lincoln St
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9 TKNAGVLTCILS 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 TKNAGVLTCSLS 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE:
STREET: 61
                                                                                                                                                                                                                                                                                                                                                                                        US-09-142-524D-83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                     RESULT 2
US-09-142-524D-82
US-09-142-524D-82

US-09-142-524D-82

Sequence 82, Application US/09142524D

Patent No. 6719976

GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Wame, Akinori
APPLICANT: Wame Akinori
PRIOR REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR PLILING DATE: 1998-09-09
PRIOR PLILING DATE: 1997-01-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: PatentIn Version 3.1

LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 81. Application US/09142524D

Patent NO. 6719976

GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Wame, Akinori
APPLICANT: Wame, Akinori
APPLICANT: Iwame, Akiko
APPLICANT: Iwame, Akiko
APPLICANT: Twano, Kohauke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
TITLE OF INVENTION PUMBER: US/09/142,524D
CURRENT FILING DATE: 1998-09-09
PRIOR PILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: PLANGE AFFLORM OF SEQ ID NOS: 174
SOFTWARE: BELEATION OF SEQ ID NOS: 174
SOFTWARE OF SEQ ID NOS: 174
                                                                                                                               ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .;
0
                                                               87.0%; Score 87; DB 3; Length 20; 85.0%; Pred. No. 2.4e-08; tive 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 70.0%; Score 70; DB 4; Length 15; Best Local Similarity 93.3%; Pred. No. 1.5e-05; Matches 14; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; NAME/KEY: MISC_FEATURE
; LOCATION: (1)...(15)
; OTHER INFORMATION: Cryjl peptide, Figure 1, Row 68
US-09-142-524D-82
                                                                                                                                                                                                                    1 NGNATPQLTKNAGVLTCSLS 20
                                                                                                                                                                                  1 NGSAAPQLTKNAGVLTCILS 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6 POLTKNAGVLTCILS 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 POLTKNAGVLTCSLS 15
                                                               Query Match
Best Local Similarity 85.0
Matches 17; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: MISC_FEATURE LOCATION: (1)..(15)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-142-524D-81
         US-08-467-023-59
                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
```

```
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Borilock, Joanne;
APPLICANT: Bond, Unlian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Rauer, Stu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Brauer, Andrew;
APPLICANT: Brauer, Alarewin F.;
APPLICANT: Brauer, Steven P.;
ITILE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immul.cri-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              43.0%; Score 43; DB 3; Length 16; 80.0%; Pred. No. 0.75;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEB: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION MATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORIEST AD BC-EMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORIEST AD BC-EMBER: 08/350,225
FILING DATE: DECEMBER: 08/350,225
FILING DATE: DECEMBER: 08/350,225
ATTORIEST AD E. Remillard
NAME: Jane E. Remil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 58, Application US/08467023
Patent No. 6090386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Griffeth, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Garman, Richard D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 NGSAAPQLTK 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7 NGNATPOLTK 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STATE: MA
COUNTRY: US
ZIP: 02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-467-023-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-467-023-58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Sone, Toshio
APPLICANT: Sone, Without
APPLICANT: Wine, Atinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Iwana, Atiko
APPLICANT: Iwana, Atiko
APPLICANT: Iwana, Atiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
FILE REFERENCE: SPO-103
CURRENT APPLICATION NUMBER: US/09/142,524D
CURRENT APPLICATION NUMBER: PCT/UP97/00740
PRIOR APPLICATION NUMBER: PCT/UP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin version 3.1
SEQ ID NO 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .,
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
43.0%; Score 43; DB 4; Length 15;
Best Local Similarity 80.0%; Pred. No. 0.7;
Matches 8; Conservative 1; Mismatches 1; Indel8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 44; DB 3; Length 13;
Pred. No. 0.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1; Indels
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INPORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REPERBRÜCE/DOCKET NUMBER: 38,872
REPERBRÜCE/TOWNEY INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFAX: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 60:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCATION: (1). (15)
COTHER INFORMATION: Cryjl peptide, Figure 1, Row 66
US-09-142-524D-80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-142-524D-80; Sequence 80, Application US/09142524D; Patent No. 6719976; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Cryptomeria japonica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 90.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11 NAGVLTCILS 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 NAGVLTCSLS 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6 NGNATPOLTK 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: MISC_FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-467-023-60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
```

g

ö

g

```
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 90
FILING DATE: 12-JUL-1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 16 amino acids
                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 NGSAAPQLTK 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7 NGXATPOLTK 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: amino acid
STRANDEDNESS: si
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-07-961-724C-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-773-008-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 4, Application US/08773008

Sequence No. 5874401

GENERAL INFORMATION:
APPLICANT: SANOU, Osamu

TITLE OF INVENTION: PROTEIN, PROCESS TO PRODUCE THE SAME,
TITLE OF INVENTION: AND USES THEREOF
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWNY AND NSIMARK
STREET: 419 Seventh Street, N.W., Suite 300

CITY: Washington
STRATE: USA
                                                            APPLICANT: EXIEY, Mark A.;
APPLICANT: Exiey, Mark A.;
TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Allergenic Proteins And Peptides From TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
STREET: 610 Lincoln St
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          43.0%; Score 43; DB 3; Length 20; 80.0%; Pred. No. 0.99;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1; Indels
                                                                                                                                                                                                                                                                                                                   COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: ERADBLE FORM:
COMPUTER: ERAP PC compatible
OPERATING SYSTEM: PC-DOS/WS-DOS
SOFTWARE: PATENTION DATA:
APPLICATION DATA:
APPLICATION ADATA:
APPLICATION ADATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION NUMBER: 08/350,225
FILING DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REGISTRATION NUMBER: 38,872
REGISTRATION NUMBER: 38,872
REGISTRATION NUMBER: 38,872
REJECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECHONE: (617) 227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMpatible
                        Yeung, Siu-mei H.;
Brauer, Andrew;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 58:
SEQUENCE CHARACTERISTICS:
Kuo, Mei-Chang;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity 80.0
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 NGSAAPQLTK 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11 NGNATPOLTK 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            amino acid
                                                                                                                                                                                                                     STREET: 610 Li
CITY: Waltham
                                                                                                                                                                                                                                                                                      USA
                                                                                                                                                                                                                                                                                                        02154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-467-023-58
                                                                                                                                                                                                                                                                                   COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 9
US-08-773-008-4
                                                                                                                                                                                                                                                               STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
```

```
APPLICANT: CHAMEGH, MUSTAPHA
APPLICANT: CHAMEGH, MUSTAPHA
APPLICANT: CAPRON, ANDRE
APPLICANT: CAPRON, ANDRE
APPLICANT: TARTAR, ANDRE
APPLICANT: TARTAR, ANDRE
APPLICANT: TRITAR, ANDRE
APPLICANT: GRAS-MASSE, HELENE
TITLE OF INVENTION: INMUNOCENIC BRANULOSUS, DNA SEQUENCE CODING FOR THIS
TITLE OF INVENTION: PEPTIDE SEQUENCE AND DIAGNOSTIC AND THERAPEUTIC
TITLE OF INVENTION: APPLICATIONS
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
ADDRESSEE: P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              42.0%; Score 42; DB 2; Length 16; 80.0%; Pred. No. 1.1; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET: 1755 S. Jefferson Davis Highway, Suite 400 CITY: Arlington STATE: Virginia COUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ZIP: 22202

ZIP: 22202

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/961,724C
NYSTEM: PC-DOS/MS-DOS
PatentIn Release #1.0, Version #1.30
                    SOFTWARE: Patentin Release #1.0, Ver CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/773,008
FILING DATE: 24-DEC-1996
FILING DATE: 24-DEC-1994
APPLICATION NUMBER: US 08/354,815
FILING DATE: 27-DEC-1994
APPLICATION NUMBER: US 08/354,815
FILING DATE: 27-DEC-1993
ATTORNEY/AGENT INFORMATION:
NAME: YUN, Allen C.
REGISTRATION NUMBER: 37,971
REFERENCE/DOCKET NUMBER: SANOU=1
TELECHOMNICATION INFORMATION:
TELECHOMS: 202-628-5197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 10-MAR-1993
CLASSIFICATION: 435
IOR ADDITOR:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FR 90/08900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 5, Application US/07961724C
Patent No. 5541078
GENERAL INFORMATION:
APPLICANT: FACON, BRIGITTE
APPLICANT: CHAMEKH, MUSTAPHA
APPLICANT: DISSOUS, COLETTE
```

ö

```
APPLICANT: Selz, Karen
APPLICANT: Selz, Karen
APPLICANT: Shlesinger, Michael
APPLICANT: Shlesinger, Michael
APPLICANT: Shlesinger, Michael
APPLICANT: Shlesinger, Michael
TITLE OF INVENTION: Algorithmic Design of Peptides for Binding and/or Modulation of the TITLE OF INVENTION: Algorithmic Design of Receptors and/or Other Proteins
FILE REFERENCE: 01561-0003-000500
CURRENT APPLICATION NUMBER: US/09/490,702B
CURRENT FILING DATE: 2000-01-24
NUMBER OF SEQ ID NOS: 96
SEQ ID NOS: 96
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:

APPLICANT: Toback, F. Gary
APPLICANT: Toback, F. Gary
APPLICANT: Toback, F. Gary
APPLICANT: Lieske, John C.
TITLE OF INVENTION: METHODS AND COMPOSITION FOR DETECTING
TITLE OF INVENTION: CRYSTALS TO KIDNEY CELLS
TITLE OF INVENTION: CRYSTALS TO KIDNEY CELLS
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: BRINKS, HOFER, GILSON & LIONE
STREET: NEC Tower - Suite 3600, 455 N. Cityfront
STREET: Plaza Drive
CITY: Chicago
STATE: Illinois
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                  30.0%; Score 30; DB 3; Length 17; 50.0%; Pred. No. 1.5e+02; tive 2; Mismatches 3; Indel8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 29; DB 4; Length 15;
Pred. No. 1.9e+02;
2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NS-09-490-702B-25

Sequence 25, Application US/09490702B

Sequence 100-660542

Sequence 100-660542

GENERAL INFORMATION:

APPLICANT: Mandell, Arnold
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 12, Application US/08837226 Patent No. 6043216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29.0%;
60.0%;
                                                                                              TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ) NAME/KEY: misc feature
; OTHER INFORMATION: synthetic
US-09-490-702B-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 60611-5599
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 29.0
Best Local Similarity 60.0
Matches 6; Conservative
         17 amino acids
                                                                                                                                                                                                                                                                                                                                                                                   5; Conservative
                                       TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 LTKNAGVLTC 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | :| | :||
8 LLRNLGKMTC 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3 SAAPQLTKNA 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SADPRIHKNA 14
                                                                                                                                                                                                                                                                                                                                               Best Local Similarity
Matches 5; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 13
US-08-837-226-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
                                                                                                                                                                                                                                                          US-08-160-604-4
                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                       δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 11
US-06-160-604-4
is Sequence 4, Application US/08160604
is Sequence 4, Application US/08160604
is Patent No. 622552
is GENERAL INFORMATION:
APPLICANT: Harley, John
is APPLICANT: James, Judith A.
ITLE OF INVENTION: PEPTIDE INDUCTION OF AUTOIMMUNITYAND CLINICAL SYMPTOMATOLOGY
ITLE OF INVENTION: PEPTIDE INDUCTION OF AUTOIMMUNITYAND CLINICAL SYMPTOMATOLOGY
INUMBER OF SEQUENCES: 127
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst
in and the control of the cont
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/160,604
FILING DATE: 30-NOV-1993
CLASSIFICATION: 424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 30; DB 1; Pred. No. 1.1e+02;
ATTORNEY/AGENT INFORMATION:

NAME: Oblon, No. 5541078man F.

REGISTRATION NUMBER: 24,618

REGISTRATION NUMBER: 660-065-0X PCT

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 413-3000

TELEFAX: (703) 413-2220

TELEFAX: 248855 OPAT UR

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET: 1100 Peachtree Street, Suite 2800 CITY: Atlanta STATE: Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:

PRIOR APPLICATION NUMBER: US 07/867,819
FILING DATE: 13-APR-1992
PRIOR APPLICATION DATA:
APPLICATION DATA:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: US 07/472,947
FILING DATE: 31-JAN-1990
ATTORNEY/AGENT INFORMATION:
NAME: Pablet, Patrea L.
REGISTRATION NUMBER: 31,284
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: OMRF114CIP(3)
TELECOMMUNICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              30.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (404) -815-6508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: (404)-815-6555
INFORMATION FOR SEQ ID NO: 4
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                        LENGTH: 14 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 85./
6, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; FRAGMENT TYPE: internal US-07-961-724C-5
                                                                                                                                                                                                                                                                                                                                                                                      single
                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: peptide HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                     amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4 AAPQLTK 10
                                                                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
```

g

```
Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 18, Application US/09537226

Sequence 18, Application US/09537226

Sequence 18, Application US/09537226

GENERAL INFORMATION:

APPLICANT: TOBACK, P. GARY

APPLICANT: LIESKE, JOHN C.

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DETECTING AND TREATING

TITLE OF INVENTION: KIDNEY DISEASES ASSOCIATED WITH ADHESION OF CRYSTALS TO

TITLE OF INVENTION: KIDNEY CELLS

FILE REFERENCE: 21459/90606

FILE REFERENCE: 21459/90606

CURRENT PALLING DATE: 2000-33-28

PRIOR APPLICATION NUMBER: 08/389,005

PRIOR APPLICATION NUMBER: 08/389,005

NUMBER OF SEQ ID NOS: 23

NUMBER OF SEQ ID NOS: 23

SOFTWARE: PATENTING DATE: 2000-32-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; OTHER INFORMATION: Description of Unknown Organism: Comparison ; OTHER INFORMATION: sequence US-09-537-226-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 28.5; DB 3; Length 20;
Pred. No. 3.2e+02;
2; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 28.5; DB 4; Length 20;
Pred. No. 3.2e+02;
2; Mismatches 4; Indels
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/837,226
FILING DATE: 08-APR-1997
CLASSIFICATION: 530
PRIOR APPLICATION NUMBER: US/08/389,005
FILING DATE: 15-FEB-1995
ATPORNEY/AGENT INFORMATION:
APPLICATION NUMBER: 35,601
REFERENCE/DOCKET NUMBER: 35,601
REFERENCE/DOCKET NUMBER: 35,601
REFERENCE/DOCKET NUMBER: 35,601
TELEPHONE: 312-321-4209
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids

LENGTH: 20 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; Sequence 101, Application US/08340283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 53.3%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
28.5%;
Best Local Similarity 53.3%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2 GSAAPQ-LTKNAGVL 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GATLPOPLYQTAGVL 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2 GSAAPQ-LTKNAGVL 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6 GATLPOPLYQTÁGVL 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Unknown Organism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acid STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 15
US-08-340-283-101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-537-226-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 18
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ठे
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
GENERAL INFORMATION:
APPLICANT: Elhammer, Ake P.
TITLE OF INVENTION: A SCINTILLATION PROXIMITY ASSAY FOR
TITLE OF INVENTION: N-ACETYLGALACTOSAMINYLTRANSFERASE ACTIVITY
NUMBER OF SEQUENCES: 205
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                              ADDRESSEE: Pharmacia and Upjohn, Inc., Intellect. Prop. Law
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 9;
                                                                                                                                                                                                                                                                                                                                                                        PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28.0%; Score 28; DB 2; I 55.6%; Pred. No. 4.1e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1; Mismatches
                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PACENTIN Release #1.0, Ve:
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/340,283
FILING DATE:
CLASSIFICATION: 436
ATTORNEY/AGENT INFORMATION:
NAME: Wootlon, Thomas A.
REGISTRATION NUMBER: 35,004
REFERENCE/DOCKET NUMBER: 4828
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Search completed: June 20, 2005, 16:00:55 Job time : 22.6 secs
                                                                                                                                                    ADDRESSEE: (1920-32-1)
STREET: 301 Henrietta Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: (616) 385-6897
TELEX: 224401
INFORMATION FOR SEQ ID NO: 101:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFHONE: (616) 385-7914
TELEFAX: (616) 385-6897
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; FRAGMENT TYPE: N-terminal US-08-340-283-101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity 55.6
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: peptide HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5 APQLIKNAG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: amino acid
STRANDEDNESS: sir
TOPOLOGY: unknowr
                                                                                                                                                                                             CITY: Kalamazoo
STATE: Michigan
COUNTRY: U.S.A.
ZIP: 49001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 APATTRNTG
```